# Appendix 3.6C
# Phase II Environmental Site Assessment
# North St. Louis Redevelopment Site

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# Phase Two Environmental Site Assessment

## NATIONAL GEOSPATIAL INTELLIGENCE AGENCY (PROPOSED)
## ST. LOUIS, MISSOURI

**February 11, 2016**

**Prepared for:**

**MISSOURI DEPARTMENT OF NATURAL RESOURCES**

**SCI No. 2015-0461.21**

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February 11, 2016

Mr. Wes March
Missouri Department of Natural Resources (MDNR)
Hazardous Waste Program Brownfields/Voluntary Cleanup (BVCP) Section
P.O. Box 176
Jefferson City, Missouri 65102-0176

RE: Phase Two Environmental Site Assessment
National Geospatial Intelligence Agency (Proposed)
St. Louis, Missouri
SCI No. 2015-0461.21

Dear Mr. March:

SCI Engineering, Inc. (SCI) has completed the Phase Two Environmental Site Assessment (Phase Two) at the above-referenced site, the report of which is contained herein. The subject site was historically developed with various commercial/light industrial operations, as well as numerous residences. Phase Two activities were performed to investigate potential for impacted soils and/or groundwater to be present on the site in association with these former uses.

Phase Two activities were performed in general accordance with our proposal dated December 9, 2015. Revisions to the scope of work were made on December 21, 2015 and January 29, 2016. These investigations included the advancement of soil borings with soil and groundwater sampling as well as trenching activities, which included the collection of bulk asbestos samples. Phase Two services are detailed in the enclosed report.

SCI appreciates being of service to you on this project. Please contact us if you have any questions or comments regarding this report.

Respectfully,

**SCI ENGINEERING, INC.**

Benjamin K. Butterfield
Staff Scientist

Edwin P. Grimmer, P.E.
Vice President

Enclosure

Electronic version submitted.

BKB/EPG/lf

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**Phase Two Environmental Site Assessment**

**NATIONAL GEOSPATIAL INTELLIGENCE AGENCY (PROPOSED)**
**ST. LOUIS, MISSOURI**

## 1.0 INTRODUCTION

A Phase One Environmental Site Assessment (Phase One) was conducted on the subject site by Environmental Operations, Inc. (EOI). This Phase One recommended the completion of a Phase Two Environmental Site Assessment (Phase Two). Following this recommendation, the Missouri Department of Natural Resources (MDNR) issued a Request For Proposals (RFP) dated November 18, 2015. During the project bidding, SCI was provided with a scope of work, prepared by EOI for the project. However, the scope presented in the RFP issued by MDNR, and the scope prepared by EOI for the project were not congruent. Through conversations with MDNR, SCI was able to complete a proposed scope of work for the project, dated December 9, 2015, which was accepted by MDNR on December 10, 2015. As such, the activities detailed in this report are in accordance with the SCI proposal dated December 9, 2015. A copy of this document is included in Appendix A.

In an effort to evaluate the potential for impacted soils and/or groundwater to be present on the site in association with the former uses, the following activities were conducted on the site:

- Soil borings with soil and groundwater sampling;
- Trenching with the collection of samples from buried rubble fills of suspected asbestos-containing materials (ACMs); and
- A Ground Penetrating Radar (GPR) survey was conducted.

A summary of these activities is discussed below.

## 2.0 PHASE TWO INVESTIGATIONS

### 2.1 Soil Boring Activities

#### *2.1.1 Soil Sampling*

A total of seventy-seven borings were outlined in the scope prepared by EOI for the project. The MDNR RFP requested that seventy-two borings be advanced on the subject site. SCI proceeded with the advancement of the seventy-two borings, as outlined in our proposal dated December 9, 2015. Various borings were removed from the EOI scope to come to the project total of 72. Additionally, during the course of the completion of the project, access was restricted to five of the boring locations. Boring locations are depicted on Figure 1 – Soil Boring and Trench Location Map.

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Each of the soil borings extended to 20 feet below the ground surface (bgs), with the exceptions of SCI-10 through SCI-12, SCI-29, SCI-37, SCI-52, SCI-58, SCI-59, and SCI-65. Probe refusal was encountered at these locations at depths ranging from nine to 19 feet bgs. Soil samples were continuously collected throughout drilling activities. The soil samples were screened on approximate 2-foot vertical intervals using a photo-ionization detector (PID), which is capable of detecting variations in concentrations of various organic trace gases, such as those associated with many petroleum products and solvents. SCI also screened the soils for evidence of unusual staining or odors. Samples were collected for laboratory analysis from the upper three feet of soil and at the location of the highest PID reading at each of the boring locations, unless no PID readings were observed. If this was the case, the subsurface samples were collected from the depth at which the perched groundwater zone was observed. If no evidence of perched groundwater was noted, the deepest soil sample was collected.

Conditions encountered during drilling activities, including PID readings and soil types, are outlined on the Boring Logs enclosed as Appendix B.

### *2.1.2 Groundwater Sampling*

Following soil sampling, temporary piezometers were installed at the locations prescribed in the EOI scope of work. These were presented on a per city block basis. As such, SCI selected the boring for each piezometer based on the likelihood of encountering impact at that location as opposed to the other borings on the city block. This was determined by a review of the PID readings and visual observations during drilling. The piezometers were constructed of Schedule 40 slotted (0.010-inch) PVC (polyvinyl chloride) for the bottom 10 feet of the wells with a Schedule 40 PVC riser installed above the screen to within 10 inches of the ground surface.

Approximately 48 hours following piezometer installation, SCI returned to the site to attempt to collect groundwater samples for laboratory analysis. Prior to each sampling event, SCI utilized an interface probe to determine the depth to groundwater in each piezometer. The piezometers were then sampled using disposable plastic bailers. The use of disposable bailers for each sampling event prevents any cross-contamination from occurring between piezometers. All of the piezometers produced adequate volumes of water for sample collection and analysis.

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The piezometers were abandoned following sample collection. The PVC screens and risers were removed and the borehole was then filled with betonite chips.

### *2.1.3 Soil Borings - Analytical Testing*

The soil samples collected from the borings were analyzed for the RCRA heavy metals by U.S. EPA Method 6010, volatile organic compounds (VOCs) and total petroleum hydrocarbons – gasoline range organics (TPH-GRO) by U.S. EPA Method 8260, and total petroleum hydrocarbons diesel range organics/oil range organics (TPH-DRO/ORO) plus polynuclear aromatic hydrocarbons (PAHs) by U.S. EPA Method 8270.

The groundwater samples were analyzed for the same constituents as above, with the exception of RCRA metals.

The soil and groundwater samples were transferred to pre-cleaned, laboratory-provided containers, placed on ice and transported to the laboratory for analysis using standard chain-of-custody procedures.

Complete laboratory results from the soil samples as well as the associated chain-of-custody documentation are enclosed as Appendix C. The results of the analytes detected by laboratory analysis of soil samples are summarized in Table 1, enclosed in Appendix C. This table also includes a comparison of the detected laboratory results to the MDNR Default Target Levels (DTLs) or naturally occurring background concentrations in St. Louis City for metals, as applicable. SCI only compared to the background concentrations if these exceeded the DTLs.

Complete laboratory results from the groundwater samples as well as the associated chain-of-custody documentation are enclosed as Appendix D. Results of analytes detected by laboratory analysis of groundwater samples are summarized in Table 2, also enclosed in Appendix D. This table also includes a comparison of the detected laboratory results to the MDNR DTLs.

MDNR DTLs are the most conservative target levels established by the MDNR and are based on unrestricted land use. The MDNR Tier One RBTLs are based on the potential routes of exposure (inhalation, ingestion, and dermal contact) associated with the current and future land use of the property (residential or non-residential) as well construction worker exposure. For the purposes of this Phase Two, concentrations of target analytes in the soil samples which exceeded the DTLs or background concentrations were further compared to the Tier One, Soil Type 1 Residential RBTLs and Non-

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Residential RBTLs, as well as the Construction Worker RBTLs. Samples collected from surficial soils were compared to the cumulative exposure route RBTLs. Subsurface samples were compared to the indoor inhalation exposure route. The cumulative exposure construction worker RBTLs were also utilized.

Concentrations of target analytes in the groundwater samples which exceeded the DTLs were compared to the indoor inhalation of vapors exposure pathway RBTLs for residential and non-residential exposures. Construction worker RBTLs for dermal contact were used for the groundwater result comparison.

#### *2.1.4 Soil Analytical Test Results*

Several concentrations of target analytes exceeded the DTLs or background concentrations, as well as the Residential and Non-Residential RBTLs. Compounds noted in excess of these thresholds included metals, PAHs, and other semi-volatile organic compounds (SVOCs). Concentrations of lead on the subject site were noted in excess of the Construction Worker RBTLs. The majority of the RBTL exceedences were encountered in the surficial soils.

A summary of these analytical results and comparison to the regulatory target levels can be found in Appendix C, Table 1. A summary of these results on a city block basis can be found in Appendix E, Table 3.

#### *2.1.5 Analytical Test Results - Groundwater*

In the groundwater samples collected from the site, several concentrations of target analytes exceeded the DTLs. None of these concentrations exceeded the Tier One Residential or Non-Residential RBTLs.

A summary of these analytical results and comparison to the regulatory target levels can be found in Appendix D, Table 2. A summary of these results on a city block basis can be found in Appendix F, Table 4.

### 2.2 Trenching Activities

SCI advanced a total of 63 trenches on the subject site. these trenches were advanced at the locations provided on the EOI scope of work. Trenches were advanced to a depth of 5 feet bgs or into native soils, whichever was shallower. The locations of the trenches are depicted on Figure 1 – Boring and Trench Locations Map. Trenches are identified as T-1 through T-76.

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Buried urban fill materials including bricks, rubble, concrete, and other building debris were observed throughout the subject site. Four underground storage tanks (USTs) were identified in T-32, along with 25-30 automotive tires. Potential heating oil USTs were identified in T-24 and T-26. Soils with visual and olfactory indicators of petroleum impacts were identified at T-38. Native soils consisted of brown, lean clays.

### *2.2.1 Sampling Activities*

As mentioned above, SCI collected bulk samples of suspected asbestos containing materials during the trenching activities. These samples were analyzed for asbestos by Polarized Light Microscopy (PLM). A summary of the results is included in Appendix G, Table 5. Complete analytical results and associated chain of custody documentation is included in Appendix G.

Asbestos containing materials were encountered at several locations on the subject site. ACMs identified included the following:

- Tile with paper backing (T-7, 395 feet, C.B. 1079);
- Roofing material (T-14, 78 feet, C.B. 1083);
- Yellow spotted tile (T-31, 132 feet, C.B. 1082);
- Green tile (T-6, 36 feet, C.B. 1093);
- Transite (T-2, 84 feet, C.B. 1092);
- Green tile (T-1, 30 feet, C.B. 1085);
- Pink checkered tile (T-35, 40 feet, C.B. 2346);
- White tile (T-45, 22 feet, C.B. 2327);
- Fireproofing (T-50, 82 feet, C.B. 2328);
- Yellow tile (T-71, 140 feet, C.B. 2318); and
- Tan tile (T-71, 140 feet, C.B. 2318).

The locations of these materials, as well as the other ACM samples collected during the course of the trenching activities are included on Figure 2, ACM Sample Locations Map.

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### 2.3 Ground Penetrating Radar (GPR) Survey

As part of the proposed scope, SCI oversaw the performance of a GPR survey on selected lots on the subject site. The intent of this survey was to attempt to identify evidence of anomalies in the ground, which could be indicative of USTs or other buried structures.

During this period, GPR activities were completed on January 7, 2016. The survey identified anomalies in the subsurface up to 8 feet below ground surface (bgs). The results of these activities are summarized below.

| Site Area (nearest intersection) | Results |
|---|---|
| 23rd Street and North Market Street (northeast corner) | No objects identified |
| 22nd Street and North Market Street (northwest corner) | Five objects were identified on this corner. During trenching activities, SCI uncovered four USTs that appeared to be closed in place. |
| 23rd Street and Maiden Street (northwest corner) | One object was identified running east to west across parcel, likely either a UST, concrete slab/foundation, or other buried structure. |

## 3.0 QUALITY ASSURANCE/QUALITY CONTROL

SCI's fieldwork was performed in accordance with SCI's Standard Operating Procedures, and the Quality Assurance Project Plan (QAPP). Fieldwork included the collection of a duplicate soil, groundwater, and bulk samples. These samples are identified with a "D" in the sample ID, located in Tables 1, 2, and 5.

SCI noted that a few of the laboratory reporting limits were above MRBCA reporting limits. It is noted that the Teklab analytical reports indicated that these elevated reported limits were caused by elevated levels of target analytes within the samples. It is likely that this is caused by the need for sample dilution due to these elevated levels. Some other instances of elevated reporting limits were caused by sample or matrix composition. SCI does not consider this to be of concern in terms of data quality.

SCI also reviewed the results for the equipment and trip blank samples. No detected analytes were identified in the trip or equipment blank samples. Therefore, SCI considers the field sampling and shipping activities to be acceptable.

SCI also compared results of the replicate and duplicate samples and calculated a Relative Percent Difference (RPD) for each analyte detected. The RPDs of the duplicate and replicate samples were compared to the RPDs of the Matrix Spike and Matrix Spike Duplicates analyzed by Teklab, Inc.

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The duplicate and replicate RPDs were similar to these calculated by the lab, with some exceptions. These exceptions are likely due to the soil consisting of urban fill and therefore not being homogenous.

Based on the information outline above, it is SCI's opinion that the laboratory data accurately reflects conditions at the locations sampled.

## 4.0 CONCLUSIONS/RECOMMENDATIONS

As detailed above, SCI has performed soil boring and trenching investigations as part of Phase Two activities.

SCI's soil and groundwater sampling activities revealed evidence of impacts in excess of the MDNR DTLs and Tier One Residential, Non-Residential, and Construction Worker RBTLs on the subject site. These impacts were predominantly associated with arsenic, lead, and PAHs, and were noted most often in the surficial soils on the subject site.

During the trenching activities, SCI encountered buried rubble including bricks, concrete, trash, and other debris. When encountered, SCI collected samples of suspect ACMs from the trenches. Analytical testing of these samples identified several ACMs on the subject site.

SCI's GPR survey revealed evidence of anomalies on two of the three lots surveyed. These anomalies may be USTs or other buried structures. Intrusive investigations would be required to further investigate these items.

SCI recommends that this impact be addressed using a risk-based approach that compliments the future land use and is protective of future receptors.

Based on the results of the various soil samples collected during the soil boring activities, it appears that the majority of the surficial soils/fill and subsurface soils on the subject site would be considered special waste, if disposed of in a Missouri-licensed landfill. Due to the fact that several of the samples exceeded one or more of the MDNR DTLs, the soil on the subject site would not be considered clean fill and should not be used as fill on another property without obtaining a special/beneficial use permit from the MDNR.

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## 5.0 LIMITATIONS

This report has been prepared for the exclusive use of the Missouri Department of Natural Resources. SCI is not responsible for independent conclusions or recommendations made by others. Furthermore, written consent must be provided by SCI should anyone other than our client wish to excerpt, or rely on, the contents of this report. The findings of this report are valid as of the present date of the assessment.

It is noted that SCI's Limited Phase Two activities were performed in an attempt to identify widespread soil and groundwater impact associated with the RECs outlined in the Phase One. SCI's Phase Two activities were performed in areas most likely to be impacted by the identified concerns; however, there is a potential for localized impact to be present in other areas not investigated during Phase Two activities. If encountered during future development activities, SCI recommends any such impact be properly addressed.

Changes in surface and subsurface conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, the broadening of knowledge, or other reasons. Accordingly, the findings of this report may be invalidated in whole or in part by changes outside our control.

SCI should be contacted with any known or suspected variations from the conditions described herein. If further development of this site indicates the presence of hazardous, toxic, or petroleum materials, or other concerns of an environmental nature, SCI should be notified to perform a re-evaluation of the environmental conditions.

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GENERAL NOTES/LEGEND

- INDICATES PROPOSED SOIL BORING LOCATIONS NOT CONDUCTED
- INDICATES CONDUCTED SOIL BORING LOCATIONS INDICATES
- PROPOSED TRENCH LOCATIONS NOT CONDUCTED
- INDICATES CONDUCTED TRENCH LOCATIONS
- INDICATES AREAS SURVEYED WITH GPR

PROJECT NAME

NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
ST. LOUIS, MISSOURI

SOIL BORING AND TRENCH LOCATION MAP

| | |
|---|---|
| JOB NUMBER | 2015-0461.21 |
| DATE | 02/2016 |
| DRAWN BY | LAP |
| CHECKED BY | BKB |
| FIGURE | 1 |

GENERAL NOTES/LEGEND

- ● INDICATES PROPOSED ACM SAMPLE LOCATIONS INDICATES
- PROPOSED TRENCH LOCATION NOT CONDUCTED
- INDICATES CONDUCTED TRENCH LOCATIONS
- INDICATES AREAS SURVEYED WITH GPR

PROJECT NAME

NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
ST. LOUIS, MISSOURI

ACM SAMPLE LOCATION MAP

| | |
|---|---|
| JOB NUMBER | 2015-0461.21 |
| DATE | 02/2016 |
| DRAWN BY | LAP |
| CHECKED BY | BKB |
| FIGURE | 2 |

# APPENDIX A

**SCI ENGINEERING, INC.**
CONSULTANTS IN DEVELOPMENT,
DESIGN, AND CONSTRUCTION
GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

December 9, 2015

Emailed 12-9-15 HMM

Mr. Wes March
Missouri Department of Natural Resources (MDNR)
Hazardous Waste Program
P.O. Box 176
Jefferson City, Missouri 65102-0176

RE: Proposal for Limited Phase Two Environmental Site Assessment (Updated w/ QA/QC Samples)
National Geospatial Intelligence Agency (Proposed)
St. Louis, Missouri
SCI No. 2015-0461.21

Dear Mr. March:

**INTRODUCTION**

SCI Engineering, Inc. (SCI) is pleased to submit this proposal for a Phase Two Environmental Site Assessment (Phase Two) at the above-referenced site. The site is an assortment of 391 properties all located within the footprint of the proposal location for the National Geospatial Intelligence Agency facility.

SCI understands that Environmental Operations, Inc. (EOI) completed a Phase One Environmental Site Assessment (Phase One) of the entire property dated October, 2015. The October, 2015 Phase One identified several environmental concerns which will be investigated per the Missouri Department of Natural Resources (MDNR) Request for Proposal (RFP), dated November 18, 2015.

The Phase Two scope of work, as further detailed below, includes various soil and groundwater sampling activities following or in conjunction with the advancement of soil boring and trenches. A survey using ground penetrating radar (GPR) will also be performed on several properties within the site boundary. Lastly, a visual survey of suspect asbestos containing materials (ACM) will be performed for each of the on-site structures.

**GEOPROBE INVESTIGATION**

At your request, SCI will advance 72 borings at various locations throughout the subject site. A Geoprobe system will be used to hydraulically drive 2½-inch diameter stainless steel probes to a depth of 20 feet below ground surface (bgs) at selected locations.

Soil samples will be continuously collected throughout the depth of each probe advancement. Soil samples will be retrieved using a closed-point type, large bore sampler assembly which requires a 2½-inch-diameter by 4-foot-long soil core in an acetate sleeve sample liner.

Each soil sample retrieved will be screened on approximate 2-foot vertical intervals using a photo-ionization detector (PID). This PID is capable of detecting variations in concentrations of organic trace gases, including aromatic petroleum hydrocarbons. This sampling protocol and subsequent screening process will aid in determining the vertical extent of soil impact, if present.

Surficial soils (0-3' bgs) will be collected for analytical testing form each boring location. The subsurface soil sample with the highest PID reading from each boring will be submitted for analytical testing. If no PID reading is encountered, the sample from immediately above the assumed perched groundwater saturation zone, or the deepest sample if no groundwater is observed, will be submitted for analysis.

Each soil sample will be placed into laboratory provided containers and transported under proper chain-of-custody procedures to the laboratory in chilled containers.

Decontamination procedures will consist of washing all sampling equipment in a solution of tap water and laboratory grade detergent (liquinox) followed by tap water rinse and double rinse with distilled water.

As part of the proposed scope, SCI will notify Missouri One Call, to locate public utilities. You will be responsible to locate all private utilities or structures. As such, SCI will not be responsible for damage to any unmarked or unknown utilities or structures.

**Groundwater Sampling**

When the targeted soil boring depth is reached at 21 of the boring locations, a piezometer will be installed. The piezometers will be constructed of a Schedule 40 PVC (polyvinyl chloride) riser and screen. The screened interval is anticipated to be 10-slot (0.010-inch) for a 10-foot interval.

The piezometers will be emplaced such that the screen extends approximately 5 feet below the groundwater level observed at the time of drilling. SCI will attempt to collect a representative water sample at the time of piezometer installation. However, should groundwater not be present on the date of drilling, SCI will return approximately 72 hours later in attempt to collect groundwater samples. As soon as the water samples are collected, the piezometers will be removed and the remaining void space will be filled with bentonite. The surface will be repaired as appropriate. Water samples will be transported to the laboratory in chilled containers.

**Analytical Testing**

The soil and groundwater samples collected during Phase Two activities will analyzed for the following parameters:

- Volatile organic compounds (VOCs) and total petroleum hydrocarbons-gasoline range organics (TPH-GRO) by U.S. EPA method 8260 (72 surface samples, 72 subsurface samples, 29 groundwater samples);
- TPH-diesel range organics and oil range organics plus polynuclear aromatic hydrocarbons (TPH-DRO/ORO plus PAHs) by U.S. EPA Method 8270 (72 surface samples, 72 subsurface samples, 19 groundwater samples;
- RCRA 8 heavy metals by U.S. EPA method 601072 (72 surface samples, 72 subsurface samples); and

- Polychlorinated byphenyls (PCBs) analysis by U.S. EPA Method 8082 (3 surface samples, 6 subsurface samples).

In addition to the requested samples and associated analysis, SCI will submit 10% of soil and groundwater samples for QA/QC purposes. These QA/QC samples will be analyzed for VOCs and GRO, via Method 8260, TPH-DRO/ORO and PAHs via Method 8270, RCRA 8 metals via Method 6010 and PCBs via Method 8082.

**TRENCHING ACTIVITIES**

SCI will advance 72 trenches, totaling 13,300 linear feet on the subject site. SCI assumes that the depth of the trench will not extend below 5 feet bgs. SCI will screen the excavations for evidence of urban fill materials. If encountered, the locations of the fill material will be noted.

SCI will collect bulk samples of suspected ACM identified within the fill material and will analyze each sample for the presence of asbestos, using polarized light microscopy (PLM). Per the RFP, approximately 142 bulk samples (1 sample per 100 linear feet) are anticipated.

In additional the 142 requested bulk samples, SCI will collect and submit 10% (15 additional samples) for QA/QC purposes.

Excavated materials will be re-placed in the excavation and packed down using the on-site equipment. Compaction testing will not be performed as part of this scope.

**GROUND PENETRATING RADAR (GPR) SURVEY**

SCI will conduct a GPR survey of selected subject site lots which may have hosted underground storage tanks (USTs). The purpose of this survey will be to attempt to identify whether or not USTs still remain on portions of the site. A summary of the findings of this activity will be included in the associated report.

Per our discussion with MDNR, there will be three properties which require GPR surveys.

**VISUAL SURVEY FOR ASBESTOS CONTAINING MATERIAL (ACM)**

SCI will conduct a visual survey for ACMs with the accessible areas of the on-site structures. The purpose of these activities will be to identify the type, amount, and condition of suspected ACM within the structures. SCI will use the information provided by these visual surveys to develop a sampling plan that characterizes the material amount, location, and anticipated number of samples required for each structure.

**FORMAL REPORT**

Results of the Phase Two scope of work outlined in this proposal will be reviewed by the VCP project manager. SCI's findings and recommendations will be presented in a formal report, and will be organized on a “per city-block” basis The report will include a description of sampling methods, laboratory data, a site plan, and all supporting data.

The results of the visual asbestos surveys will be provided in a separate report, as will be asbestos abatement sampling plan.

## ESTIMATED SCHEDULE

SCIs work on the project will begin within 10 days of receipt of you authorization-to proceed. SCI estimates that 8 to 10 weeks will be required to complete the project. For example, if the project is awarded on December 11th, a draft report will be submitted to the BVCP for review not later than the end February 12th, 2016. However, if you have a more specific deadline, please contact us.

## COST OF SERVICES

The activities described herein will be performed on a time and material basis in accordance with the hourly rates and fixed unit prices specified on the pricing page of our contract. Below is a breakdown of estimated hours and costs for the scope of work outlined above.

| **Phase Two Environmental Site Assessment Activities – National Geospatial Intelligence Agency (Proposed)** | | |
|---|---|---|
| Project Manager | | |
| Scientist | | |
| Field Technician | | |
| Clerical | | |
| Contract Administrator | | |
| Drilling (per boring)* | | |
| Markup on Drilling Activities | | |
| VOC + GRO Analysis (Soil) | | |
| VOC + GRO Analysis (Groundwater) | | |
| TPH-DRO/ORO+PAH Analysis (Soil) | | |
| TPH-DRO/ORO+PAH Analysis (Groundwater) | | |
| 8 RCRA Metals Analysis (soil) | | |
| PCB Analysis (soil) | | |
| Markup on Laboratory Analysis | | |
| Excavator | | |
| Equipment Mobilization | | |
| Markup on Excavator | | |
| Bulk Asbestos Analysis (PLM) * | | |
| Markup on Asbestos Analysis | | |

* - indicates services performed by a WBE or MBE subcontractor

| Phase Two Environmental Site Assessment Activities – National Geospatial Intelligence Agency (Proposed)-continued | | |
|---|---|---|
| GPR Survey (3 properties) | | |
| Markup on GPR Survey | | |
| **Not to Exceed Total** | | |

Per our discussion with MDNR, with the exception of the GPR survey(s), the scope of work outlined above is based on the information (i.e. number of soil borings, number of piezometer, number of soil/groundwater samples) provided in the RFP document and not the workplan prepared by EOI.

This proposal assumes that the MDNR will provide SCI access to each of the subject site lots and structures, as necessary. Additional borings will be conducted at the unit rate described above. Our fees assume that the borings/trenches will be conducted during a single mobilization. Should additional mobilizations be required after excavation/drilling equipment has demobilized from the site, additional fees will apply.

SCI proposes to subcontract Schneider Laboratory Global, Inc., Global Environmental, Inc., and PSA Environmental, all of which are Missouri-certified WBE and/or MBE businesses.

Thank you for the opportunity to be of continued service to you on this project. If you have any questions regarding this proposal, or desire to modify the proposed scope, please do not hesitate to call.

Respectfully,

**SCI ENGINEERING, INC.**

Benjamin K. Butterfield
Staff Scientist

Trey L. Coad, CHMM
Vice President

TLC/EPG/rah/hmm

Enclosures

\\\2015-0461 National Geospatial Int. Agency\Financial\21\15-0461.21 Phase Two Proposal - Updated with QAQC Samples.doc

**SCI ENGINEERING, INC.**
130 Point West Boulevard
St. Charles, Missouri 63301
636-949-8200 Fax 636-949-8269
www.sciengineering.com

# ACCEPTANCE OF PROPOSAL FOR PROFESSIONAL SERVICES

Project Name: National Geospatial Intelligence Agency- Phase Two ESA

Project Number: 2015-0461.21 / BKB/TLC

Date: December 9, 2015

Fee: **$**

Please provide formal authorization to proceed by completing, signing, and returning this form. The attached terms and conditions will apply to the services outlined in the accompanying proposal.

**Accepted By:**

Name and Title: _____ Address: _____

Signature: _____ City, State, Zip: _____

Company Name: _____ Telephone: _____

Date: _____ Email: _____

**Party responsible for payment: (if different than Accepted By)**

Name and Title: _____ Address: _____

Signature: _____ City,State,Zip: _____

Company Name: _____ Telephone: _____

Date: _____ Email: _____

**Report Distribution (Note: Additional printed report copies after final submittal will be billed at $25.00 each)**

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**<u>NOTICE TO OWNER:</u> (FOR SITES IN MISSOURI ONLY)**
**FAILURE OF THIS CONTRACTOR TO PAY THOSE PERSONS SUPPLYING MATERIAL OR SERVICES TO COMPLETE THIS CONTRACT CAN RESULT IN THE FILING OF A MECHANIC'S LIEN ON THE PROPERTY WHICH IS THE SUBJECT OF THIS CONTRACT PURSUANT TO CHAPTER 429.RSMo. TO AVOID THIS RESULT YOU MAY ASK THIS CONTRACTOR FOR "LIEN WAIVERS" FROM ALL PERSONS SUPPLYING MATERIAL OR SERVICES FOR THE WORK DESCRIBED IN THIS CONTRACT. FAILURE TO SECURE LIEN WAIVERS MAY RESULT IN YOU PAYING FOR LABOR AND MATERIAL TWICE.**

SCI ENGINEERING, INC.
130 Point West Boulevard
St. Charles, Missouri 63301
636-949-8200 Fax 636-949-8269
www.sciengineering.com

# GENERAL TERMS AND CONDITIONS

1. **ACCEPTANCE OF AGREEMENT** The terms and conditions of the agreement between the client and SCI ENGINEERING, INC. (hereinafter called SCI) are detailed below and have been established to allocate risks between both. For the purposes of convenience, the client may choose to orally authorize our service, in which case the client agrees that the verbal agreement constitutes formal acceptance of the terms and conditions detailed below. Subsequent to an agreement by both parties to perform the services, modifications to the terms and conditions are prohibited.

2. **SITE ENTRY** You, the Client, will provide for right of entry of SCI or employees of firms working under the direction of SCI, and all necessary equipment, in order to perform the work. Although SCI will exercise reasonable care in performing its services, the Client understands that use of testing or other equipment may unavoidably cause some damage, the correction of which is not part of this agreement. The client agrees, to the fullest extent permitted by law, to indemnify and hold harmless SCI and its subconsultants against any damages, liabilities, or costs, arising or allegedly arising from procedures associated with testing or investigative activities. If you desire or require us to restore the site to its former condition, upon written request, we will perform such additional work as is necessary and you agree to pay all costs incurred.

3. **SUBSURFACE STRUCTURES OR UTILITIES** The Client will furnish to SCI information identifying the type and location of utility lines and other man-made objects beneath the site's surface. SCI will take reasonable precautions to avoid damaging these man-made objects . You agree to waive any claim against SCI, and to defend, indemnify and hold SCI harmless from any claim or liability for injury or loss allegedly arising from SCI's damaging underground utilities or other man-made objects that were not called to SCI's attention, or which were not properly located on plans furnished to SCI.

4. **SAMPLES** Soil, rock, water, or other samples obtained from the project site are your property. SCI shall preserve such samples for no longer than thirty (30) calendar days after the issuance of any document that includes the data obtained from them, unless other mutually agreed arrangements are documented.

Concrete test specimens will be discarded after testing. If project specification strengths are met, "hold" cylinders will be discarded at that time.

If in SCI's opinion any of the samples collected may be affected by regulated contaminants, SCI shall package such samples in accordance with applicable law and client shall arrange for lawful disposal procedures. SCI shall not, under this agreement, arrange for or be responsible for the disposal of substances affected by regulated contaminants. Furthermore, unless detailed in a specific work scope, SCI is not responsible for any soil cuttings or produced groundwater generated for the purpose of sample collection that may be affected by regulated contaminants that are left at a job site and were generated for the collection of soil and groundwater samples. SCI will, at the client's request, help the client identify appropriate alternatives for the off-site treatment, storage, or disposal of these materials, for additional fees.

5. **GENERAL LIABILITY AND LIMITATION** SCI agrees to hold you harmless and to indemnify you on account of any liability due to bodily injury or property damage arising directly out of our negligent operational acts, but such hold harmless and indemnity will be limited to that covered by our comprehensive general liability insurance. Our general liability insurance, subject to its limits, terms and conditions, provides protection against liability arising out of bodily injury and property damage that is the direct result of our operational negligence. At your request, SCI will provide certificates evidencing such coverage and will purchase additional limits of liability that you may require as a separate cost item to be borne by you.

You shall not be liable to SCI and SCI shall not be liable to you for any consequential damages incurred by either due to the fault of the other, regardless of the nature of this fault, or whether it was committed by you or SCI, their employees, agents, or subcontractors. Consequential damages include, but are not limited to, loss of use, loss of profit, loss of business, loss of income, loss of reputation or any other consequential damage that any party may have incurred from any cause of action, including, but not limited to negligence, strict liability, breach of contract, or breach of warranty.

6. **SHARED RISK ALLOCATION** The Client and SCI agree to allocate certain of the risks so that, to the fullest extent permitted by law, SCI's total aggregate liability to the Client is limited to $50,000.00 for any and all injuries, damages, claims, losses, expenses, or claim expenses (including attorney's and expert witness' fees) arising out of this AGREEMENT from any cause or causes. Such causes include, but are not limited to, SCI's negligence, errors, omissions, strict liability, statutory liability, breach of contract, breach of warranty, negligent misrepresentation, or other acts giving rise to liability based upon contract, tort, or statute.

Limitations on liability, waivers and indemnities in this Agreement are business understandings between the parties and shall apply to all legal theories of recovery, including breach of contract or warranty, breach of fiduciary duty, tort (including negligence), strict or statutory liability, or any other cause of action. You agree that you will not seek damages in excess of the contractually agreed-upon limitation directly or indirectly through suits against other parties who may join the Consultant as third-party defendant. None of the insurance or indemnity obligations under this agreement shall be deemed to be in conflict with this limitation of liability provision.

7. **INVOICES** You will make all payments in accordance with SCI's invoices, and payment is due upon receipt of invoice. A fee of 1½ percent per month will be payable on any amounts not paid within thirty (30) days, payment thereafter to be applied first to accrued interest and then to your unpaid amount. You agree to pay invoices under these terms and to bear collection fees, court costs, or any other reasonable expense involved in the collection of amounts not paid.

8. **HAZARDOUS MATERIALS; NOTIFICATION OF AND DISCOVERY OF** When hazardous materials are known, assumed, or suspected to exist at a site, SCI is required to take appropriate precautions to protect the health and safety of its personnel, to comply with applicable laws and regulations, and to follow procedures that SCI deems prudent to help minimize physical risks to employees and the public. You warrant that you have provided to SCI all available information about type and location of known and suspected hazardous materials on, under, or adjacent to the project site.

The discovery of unanticipated hazardous or suspected hazardous materials will constitute a changed condition mandating termination of services if SCI and you are unable to renegotiate the scope of service in a timely manner. SCI will notify you as soon as practically possible should SCI encounter unanticipated hazardous or suspected hazardous materials.

The discovery of unanticipated hazardous or suspected hazardous materials may make it necessary for SCI to take measures that in SCI's professional opinion are needed to help preserve and protect the health and safety of SCI's personnel and of the public, and/or to preserve and protect the environment. As a condition precedent to the provision of service for this project, you agree to compensate SCI for the additional fees and costs associated with any such measures and further agree to defend, indemnify, and hold harmless from any claim or liability for injury or loss arising from SCI's encountering unanticipated hazardous or suspected hazardous materials.

9. **CONTAMINATION OF AN AQUIFER** Unavoidable contamination of soil or groundwater may occur during subsurface exploration, as when drilling or sampling tools penetrate a contaminated area, linking it to an aquifer, underground stream, or other hydrous body not previously contaminated and capable of spreading contaminants. Because subsurface exploration is an essential aspect of the services that SCI will provide on your behalf, you shall indemnify, defend, and hold SCI harmless from any claim or liability for injury or loss which may arise as a result of contamination allegedly caused by subsurface exploration.

10. **SITE SAFETY** With respect to project site safety, SCI shall be responsible solely for the on-site activities of its employees and subcontractors, and this responsibility shall not be construed by any party to relieve you or the general contractor from your obligation to maintain a safe project site. Neither the professional activities of SCI, nor the presence of SCI's employees or subcontractors shall be construed by any party to imply that SCI has any responsibility for any contractor's methods of work performance, procedures, superintendence, sequencing of operations, or safety in, on, or about the project site. You agree that the general contractor is responsible for project site safety, and warrant that this intent shall be made evident in your agreement with the general contractor.

11. **CONSTRUCTION COST ESTIMATES** An opinion of construction cost prepared by SCI represents our judgment as a design professional and is supplied for your general guidance only. Since we have no control over the cost of labor and material, nor over competitive bidding or market conditions, we do not guarantee the accuracy of our opinion as compared to other sources, such as, contractor bids of actual cost to the owner.

12. **DEFECTS IN SERVICE** You and your personnel, contractors, and subcontractors shall promptly report to SCI any defects or suspected defects in SCI's work, in order that SCI may take prompt effective measures which in SCI's opinion will minimize the consequences of any such defect.

13. **TERMINATION** Any or all services being provided for you by SCI under these General Terms and Conditions or under separate contract may be terminated by either party upon seven (7) days prior written notice. In the event of termination, SCI shall be compensated by you for all services performed up to and including the termination date, including reimbursable expenses.

14. **ENVIRONMENTAL SITE ASSESSMENT** An Environmental Site Assessment is conducted to render an opinion about the possibility of regulated contaminants being present on, in, or beneath the site specifically at the time services were conducted. Client understands that no matter how thorough an Environmental Site Assessment is, SCI cannot know or state factually that a site is unaffected by reportable quantities of regulated contaminants. Furthermore, even if SCI believes that reportable quantities are not present, the client bears the risk that such contaminants may be present or may migrate to the site after the study is complete. Likewise, the client agrees to hold SCI harmless from any claim or liability for injury or loss arising from the unanticipated discovery of hazardous materials or suspected hazardous materials to the fullest extent permitted by law.

15. **FAILURE TO FOLLOW RECOMMENDATIONS** SCI disclaims any and all responsibility and liability for problems that may occur during implementation of SCI's plans, specifications, or recommendations when SCI is not retained to observe such implementation.

16. **ALTERATION OF INSTRUMENTS OF SERVICE** Client agrees that designs, plans, specifications, reports, proposals, and similar documents prepared by SCI are instruments of professional service, and as such, they may not under any circumstances be altered by any party except SCI. Client warrants that SCI's instruments of service will be used only and exactly as submitted by SCI. Accordingly, Client shall waive any claim against SCI and shall, to the fullest extent permitted by law, indemnify, defend, and hold SCI harmless of any claim or liability for injury or loss arising from unauthorized alteration of SCI's instruments of service.

17. **MOLD DISCLAIMER** The services performed by SCI, unless specifically addressed in our scope of services, are not intended to take into account indoor amplification of mold. SCI's services may comment on depth to groundwater and site drainage, but in no instance is this to be interpreted that we were specifically intending to reduce moisture contents and/or humidity measurements within the structure as they may relate to mold. Client understands our services, unless specifically expressed in our work scope, are in no way intended to address the potential for mold infestation, and, as such, agrees to indemnify and hold SCI harmless from any claim alleging that SCI's services caused or aggravated a mold infestation.

18. **OTHER PROVISIONS** You agree that this contract is entered into by the parties for the sole benefit of the parties to the contract, and that nothing in the contract shall be construed to create a right or benefit for any third party.

a. Neither party shall hold the other responsible for damages or delay in performance caused by acts of God, strikes, lockouts, accidents, or other events beyond the control of the other or the other's employees and agents.

b. You agree that any and all limitations of SCI's liability and indemnifications by you shall include and extend to those individuals and entities SCI retains for performance of the services under this Agreement, including but not limited to SCI's officers, directors, and employees and their heirs and assigns, and SCI's subconsultants.

c. In an effort to resolve any conflicts that arise during or following completion of the project, you and SCI agree that all disputes between us arising out of or related to this Agreement shall be submitted to non-binding mediation, unless the parties mutually agree otherwise.

d. In the event there is a dispute between SCI and you, other than collection of fees and which is not resolved by mediation, the prevailing party shall be awarded its reasonable attorney's fees, expert witness fees, and other costs. THE PARTIES TO THIS CONTRACT HEREBY AGREE TO SUBMIT ANY SUCH DISPUTE TO THE CIRCUIT COURT OF ST. CHARLES COUNTY, STATE OF MISSOURI.

e. Test borings and test pits are an accepted and informative means of subsurface exploration. However, in the nature of things, they cannot indicate with absolute certainty the nature of the subsurface conditions between and sample locations of the exploration and below the termination of the borings or pits. Therefore, a report based on test borings, test pits, or other exploration method cannot ascertain the nature of the subsurface conditions between and beyond the specific sample locations. If conditions different than are indicated in our report come to your attention after you receive the report, it is recommended that you contact SCI immediately to inform SCI completely of what you have discovered and to authorize further evaluation, if appropriate.

f. Any recommendations provided in any correspondence, reports, plans, etc. from SCI are for the exclusive use of our client and are specific to the project covered by this contract. Recommendations provided by SCI are not meant to supercede more stringent requirements of local ordinances.

# APPENDIX B

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
**BORING NUMBER** SCI-1
**LOCATION** St. Louis, Missouri
**SHEET** 1 **of** 1
**DRILLER** Geo Drill
**HAMMER** --
**PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500
**ELEVATION**
**DATE DRILLED** 12/17/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6" TOPSOIL | | 1 | | | | | | | |
| | | | | | FILL: Brown and dark brown, lean clay, with crushed brick | | | | | | <1 | | | |
| | 1 | CS | 12/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | 3 |
| | | | | | Becomes brown, with crushed brick | | | | | | | | | |
| 6 | 2 | CS | 28/48 | | | | | | | | <1 | | | 6 |
| | | | | | No crushed brick | | | | | | | | | |
| 9 | | | | | | | | | | | | | | 9 |
| | 3 | CS | 22/48 | | | | | | | | <1 | | | |
| 12 | | | | | Becomes brown and gray, stiff, moist | | | | | | | | | 12 |
| | 4 | CS | 2/48 | | | | 2 | | | | <1 | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | Becomes moist to saturated | | | | | | <1 | | | |
| 18 | 5 | CS | 30/48 | | | | | | | | | | | 18 |

Boring terminated at 20 feet.

**WATER LEVEL:**

| | |
|---|---|
| | NONE OBSERVED WHILE DRILLING |
| 17 | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
**BORING NUMBER** SCI-2
**LOCATION** St. Louis, Missouri
**SHEET** 1 **of** 1
**DRILLER** Geo Drill
**HAMMER** --
**PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500
**ELEVATION**
**DATE DRILLED** 12/17/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6" TOPSOIL | | 1 | | | | | | | |
| | | | | | FILL: Crushed brick and rock | | | | | | <1 | | | |
| | 1 | CS | 15/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | 3 |
| | | | | | FILL: Crushed gravel and concrete | | | | | | <1 | | | |
| 6 | 2 | CS | 18/48 | | | | | | | | | | | 6 |
| | | | | | FILL: Dark gray, gravel and crushed brick | | | | | | <1 | | | |
| 9 | 3 | CS | 14/48 | | | | | | | | | | | 9 |
| 12 | | | | | NO RECOVERY | | | | | | | | | 12 |
| | 4 | CS | 0/48 | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | FILL: Dark gray, with brick | | 2 | | | | <1 | | | |
| 18 | 5 | CS | 10/48 | | | | | | | | | | | 18 |
| | | | | | | | 3 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

| | |
|---|---|
| | NONE OBSERVED WHILE DRILLING |
| 19 | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-3
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** Geo Drill **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500 **ELEVATION** **DATE DRILLED** 12/17/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | CS | 20/48 | | FILL: Crushed concrete and brick, with brown lean clay | | 1 | | | | <1 | | | |
| 3 | | | | | | | | | | | | | | 3 |
| | 2 | CS | 33/48 | | FILL: Brown, lean clay, with cinders<br>Becomes dark gray, with crushed brick and gravel | | | | | | <1 | | | |
| 6 | | | | | | | | | | | | | | 6 |
| | 3 | CS | 23/48 | | FILL: Crushed concrete and brick, and cinders, with dark gray, lean clay | | | | | | <1 | | | |
| 9 | | | | | | | | | | | | | | 9 |
| 12 | | | | | | | | | | | | | | 12 |
| | 4 | CS | 17/48 | | FILL: Gravel, with crushed brick, moist | | 2 | | | | | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | 5 | CS | 9/48 | | FILL: Crushed brick, with gray, lean clay, saturated | | | | | | | | | |
| 18 | | | | | | | | | | | | | | 18 |

Boring terminated at 20 feet.

**WATER LEVEL:**

| | |
|---|---|
| | NONE OBSERVED WHILE DRILLING |
| 15 | ft WHILE DRILLING |
| | ft ____ HRS AFTER DRILLING |
| | ft ____ DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
**BORING NUMBER** SCI-4
**LOCATION** St. Louis, Missouri
**SHEET** 1 **of** 1
**DRILLER** Geo Drill
**HAMMER** --
**PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500
**ELEVATION**
**DATE DRILLED** 12/17/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 2" TOPSOIL<br>FILL: Reddish-brown, sandy lean clay, moist | | 1 | | | | | | | |
| | 1 | CS | 4/48 | | | | | | | | 0.5 | | | |
| 3 | | | | | | | | | | | | | | 3 |
| | | | | | FILL: Gravel<br>LEAN CLAY (CL): Brown, moist | | | | | | | | | |
| 6 | 2 | CS | 40/48 | | | | | | | | <1 | | | 6 |
| 9 | | | | | | | | | | | | | | 9 |
| | 3 | CS | 46/48 | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | 4 | CS | 28/48 | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | 2 | | | | <1 | | | |
| 18 | 5 | CS | 32/48 | | | | | | | | | | | 18 |
| | | | | | FAT CLAY (CH): Brown | | | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-5
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** Geo Drill **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500 **ELEVATION** **DATE DRILLED** 12/17/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 2" CRUSHED ROCK | | 1 | | | | | | | |
| | | | | | 2" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown, lean clay | | | | | | <1 | | | |
| | | | | | FILL: Cinders, gravel, and crushed brick | | | | | | | | | |
| | 1 | CS | 19/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | 3 |
| | | | | | LEAN CLAY (CL): Brown | | | | | | | | | |
| | | | | | Becomes gray, observed petroleum odor | | 2 | | | | 1.4 | | | |
| 6 | 2 | CS | 36/48 | | | | | | | | | | | 6 |
| | | | | | Becomes brown | | | | | | | | | |
| 9 | | | | | | | | | | | | | | 9 |
| | 3 | CS | 26/48 | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | Becomes medium plastic | | | | | | <1 | | | |
| | 4 | CS | 30/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | Becomes moist | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 18 | 5 | CS | 28/48 | | | | | | | | | | | 18 |
| | | | | | FAT CLAY (CH): Brown, trace coarse sand | | 3 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
**BORING NUMBER** SCI-6
**LOCATION** St. Louis, Missouri
**SHEET** 1 **of** 1
**DRILLER** Geo Drill
**HAMMER** --
**PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500
**ELEVATION**
**DATE DRILLED** 12/17/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 3" TOPSOIL | | 1 | | | | | | | |
| | | | | | FILL: Brown, fat clay, with cinders and gravel | | | | | | <1 | | | |
| | | | | | LEAN CLAY (CL): Brown, moist | | | | | | | | | |
| | 1 | CS | 26/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | <1 | | | |
| 6 | 2 | CS | 35/48 | | | | | | | | | | | 6 |
| | | | | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | | | | 9 |
| | 3 | CS | 27/48 | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 30/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | 2 | | | | <1 | | | |
| 18 | 5 | CS | 28/48 | | FAT CLAY (CH): Brown, with gravel | | | | | | | | | 18 |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
**BORING NUMBER** SCI-7
**LOCATION** St. Louis, Missouri
**SHEET** 1 **of** 1
**DRILLER** Geo Drill
**HAMMER** --
**PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500
**ELEVATION**
**DATE DRILLED** 12/17/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6" TOPSOIL | | 1 | | | | | | | |
| | | | | | FILL: Brown, lean clay, trace coarse sand | | | | | | <1 | | | |
| | 1 | CS | 14/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | 3 |
| | | | | | LEAN CLAY (CL): Brown, trace coarse sand | | | | | | <1 | | | |
| 6 | 2 | CS | 19/48 | | | | | | | | | | | 6 |
| | | | | | Becomes moist, no sand | | | | | | | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | 3 | CS | 26/48 | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | Becomes medium plastic | | | | | | <1 | | | |
| | 4 | CS | 35/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | 2 | | | | <1 | | | |
| 18 | 5 | CS | 30/48 | | | | | | | | | | | 18 |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
**BORING NUMBER** SCI-8
**LOCATION** St. Louis, Missouri
**SHEET** 1 **of** 1
**DRILLER** Geo Drill
**HAMMER** --
**PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500
**ELEVATION**
**DATE DRILLED** 12/17/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 2" TOPSOIL | | 1 | | | | | | | |
| | | | | | FILL: Crushed brick, gravel | | | | | | <1 | | | |
| | | | | | LEAN CLAY (CL): Brown and gray | | | | | | | | | |
| | 1 | CS | 19/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | 3 |
| | | | | | Becomes brown | | | | | | <1 | | | |
| 6 | 2 | CS | 20/48 | | | | | | | | | | | 6 |
| | | | | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | | | | 9 |
| | 3 | CS | 20/48 | | | | | | | | | | | |
| 12 | | | | | Becomes moist | | | | | | | | | 12 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 27/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | Becomes gray | | 2 | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 18 | 5 | CS | 27/48 | | Becomes brown | | | | | | | | | 18 |
| | | | | | | | 3 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-9
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** Geo Drill **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500 **ELEVATION** **DATE DRILLED** 12/17/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | LABORATORY TEST RESULTS: MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 5" TOPSOIL | | 1 | | | | | | | |
| | | | | | FILL: Brown, lean clay, trace crushed brick | | | | | | <1 | | | |
| | | | | | LEAN CLAY (CL): Brown | | | | | | | | | |
| | 1 | CS | 13/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | <1 | | | |
| 6 | 2 | CS | 15/48 | | | | | | | | | | | 6 |
| | | | | | Becomes moist | | | | | | <1 | | | |
| 9 | | | | | | | | | | | | | | 9 |
| | 3 | CS | 19/48 | | | | | | | | | | | |
| 12 | | | | | Becomes brown, some gray | | | | | | | | | 12 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 20/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | 2 | | | | <1 | | | |
| 18 | 5 | CS | 29/48 | | | | | | | | | | | 18 |
| | | | | | Becomes gray | | | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
**BORING NUMBER** SCI-10
**LOCATION** St. Louis, Missouri
**SHEET** 1 **of** 1
**DRILLER** Geo Drill
**HAMMER** --
**PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500
**ELEVATION**
**DATE DRILLED** 12/18/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown, lean clay, stiff, with bricks and cinders | | 1 | | | | <1 | | | |
| | | | | | LEAN CLAY (CL): Brown, stiff | | | | | | | | | |
| | 1 | CS | 28/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| 6 | 2 | CS | 40/48 | | | | | | | | | | | 6 |
| | | | | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | 3 | CS | 39/48 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 48/48 | | FAT CLAY (CH): Brown, trace gravel | | | | | | | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | 5 | CS | 12/12 | | Becomes stiff, moist, trace sand and weathered rock | | 2<br>3 | | | | <1 | | | |
| | | | | | Probe refusal at 17 feet. | | | | | | | | | |
| 18 | | | | | | | | | | | | | | 18 |

**WATER LEVEL:**

| | |
|---|---|
| X | NONE OBSERVED WHILE DRILLING |
| | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
**BORING NUMBER** SCI-11
**LOCATION** St. Louis, Missouri
**SHEET** 1 **of** 1
**DRILLER** Geo Drill
**HAMMER** --
**PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500
**ELEVATION**
**DATE DRILLED** 12/18/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Fat clay, cinders, crushed concrete | | | | | | <1 | | | |
| | 1 | CS | 29/48 | | LEAN CLAY (CL): Brown, moist | | 1 | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | 0.1 | | | |
| 6 | 2 | CS | 26/48 | | | | | | | | | | | 6 |
| | | | | | | | | | | | 0.2 | | | |
| 9 | | | | | | | | | | | 0.2 | | | 9 |
| | 3 | CS | 29/48 | | | | | | | | | | | |
| | | | | | FAT CLAY (CH): Brown, stiff | | | | | | 0.1 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | 0.2 | | | |
| | 4 | CS | 46/48 | | | | | | | | | | | |
| 15 | | | | | | | 2 | | | | 0.4 | | | 15 |
| | | | | | Trace gravel | | | | | | | | | |
| | 5 | CS | 11/11 | | LEAN CLAY (CL): Brown, some weathered rock | | | | | | <1 | | | |
| | | | | | Probe refusal at 17 feet. | | | | | | | | | |
| 18 | | | | | | | | | | | | | | 18 |

**WATER LEVEL:**

| | |
|---|---|
| X | NONE OBSERVED WHILE DRILLING |
| | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
**BORING NUMBER** SCI-12
**LOCATION** St. Louis, Missouri
**SHEET** 1 **of** 1
**DRILLER** Geo Drill
**HAMMER** --
**PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500
**ELEVATION**
**DATE DRILLED** 12/18/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown lean clay, with crushed brick | | 1 | | | | <1 | | | |
| | | | | | LEAN CLAY (CL): Brown | | | | | | | | | |
| | 1 | CS | 29/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| 6 | 2 | CS | 47/48 | | | | | | | | | | | 6 |
| | | | | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | 3 | CS | 44/48 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | 1.0 | | | |
| | 4 | CS | 43/48 | | | | 2 | | | | | | | |
| 15 | | | | | | | | | | | 1.2 | | | 15 |
| 18 | 5 | CS | 29/48 | | FAT CLAY (CH): Brown, trace gravel and coarse sand | | | | | | | | | 18 |
| | | | | | Probe refusal at 19 feet. | | | | | | | | | |

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
**BORING NUMBER** SCI-13
**LOCATION** St. Louis, Missouri
**SHEET** 1 **of** 1
**DRILLER** Geo Drill
**HAMMER** --
**PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500
**ELEVATION**
**DATE DRILLED** 12/18/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 3" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Dark brown, lean clay, with crushed concrete and brick, and cinders | | | | | | <1 | | | |
| | 1 | CS | 25/48 | | | | 1 | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | LEAN CLAY (CL): Dark brown and gray | | | | | | 0.2 | | | |
| 6 | 2 | CS | 21/48 | | Becomes moist | | | | | | | | | 6 |
| | | | | | | | | | | | 0.2 | | | |
| | | | | | Becomes brown and gray | | | | | | | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | 3 | CS | 23/48 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| | | | | | Becomes gray *(Black material at bottom of sample)* | | | | | | | | | |
| 12 | | | | | GRAVELLY LEAN CLAY (CL): Black | | | | | | | | | 12 |
| | | | | | | | | | | | 0.4 | | | |
| | 4 | CS | 11/48 | | LEAN CLAY (CL): Gray | | | | | | | | | |
| 15 | | | | | Becomes brown | | | | | | | | | 15 |
| | | | | | Becomes brown and gray | | | | | | | | | |
| | | | | | Becomes brown, moist | | | | | | 0.2 | | | |
| 18 | 5 | CS | 27/48 | | | | | | | | | | | 18 |
| | | | | | | | 2 | | | | | | | |
| | | | | | | | | | | | 0.4 | | | |
| | | | | | | | 3 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
**BORING NUMBER** SCI-14
**LOCATION** St. Louis, Missouri
**SHEET** 1 **of** 1
**DRILLER** Geo Drill
**HAMMER** --
**PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500
**ELEVATION**
**DATE DRILLED** 12/18/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | TOPSOIL | | | | | | | | | |
| | | | | | FILL: Moist | | 1 | | | | 0.3 | | | |
| | 1 | CS | 5/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | 3 |
| | | | | | FILL: Gravel, with cinder and crushed brick, moist | | | | | | <1 | | | |
| | | | | | With brown lean clay | | | | | | | | | |
| 6 | 2 | CS | 15/48 | | | | | | | | | | | 6 |
| | | | | | | | | | | | <1 | | | |
| | | | | | FILL: Brown, lean clay, with gravel and crushed brick | | | | | | | | | |
| 9 | | | | | LEAN CLAY (CL): Brown, moist | | | | | | <1 | | | 9 |
| | 3 | CS | 24/48 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 32/48 | | | | | | | | | | | |
| 15 | | | | | Becomes brown and gray | | | | | | 0.2 | | | 15 |
| | | | | | Becomes moist | | | | | | | | | |
| | | | | | Becomes brown | | | | | | 0.3 | | | |
| 18 | 5 | CS | 22/48 | | | | 2 | | | | | | | 18 |
| | | | | | FAT CLAY (CH): Brown | | | | | | 0.3 | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
**BORING NUMBER** SCI-15
**LOCATION** St. Louis, Missouri
**SHEET** 1 **of** 1
**DRILLER** Geo Drill
**HAMMER** --
**PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500
**ELEVATION**
**DATE DRILLED** 12/18/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 8" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Crushed brick and concrete | | 1 | | | | 0.2 | | | |
| | 1 | CS | 22/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | 0.2 | | | 3 |
| | | | | | With cinders | | | | | | | | | |
| | | | | | | | | | | | 0.2 | | | |
| 6 | 2 | CS | 16/48 | | | | | | | | | | | 6 |
| | | | | | With brown lean clay | | | | | | | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | 3 | CS | 20/48 | | | | | | | | | | | |
| | | | | | Becomes moist | | | | | | <1 | | | |
| 12 | | | | | With gravel, moist | | | | | | | | | 12 |
| | | | | | | | 2 | | | | <1 | | | |
| | 4 | CS | 13/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | With dark gray lean clay | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 18 | 5 | CS | 13/48 | | | | 3 | | | | | | | 18 |

Boring terminated at 20 feet.

**WATER LEVEL:**

| | |
|---|---|
| | NONE OBSERVED WHILE DRILLING |
| 16 | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-16
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** Geo Drill **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500 **ELEVATION** **DATE DRILLED** 12/18/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Crushed brick and concrete | | 1 | | | | <1 | | | |
| | 1 | CS | 18/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | 0.1 | | | |
| 6 | 2 | CS | 13/48 | | | | | | | | | | | 6 |
| | | | | | Becomes moist | | | | | | <1 | | | |
| | | | | | FILL: Crushed concrete | | | | | | | | | |
| 9 | | | | | LEAN CLAY (CL): Brown, trace dark gray, moist | | | | | | <1 | | | 9 |
| | 3 | CS | 22/48 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | Becomes brown, moist | | | | | | | | | 12 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 28/48 | | | | | | | | | | | |
| 15 | | | | | Becomes gray | | | | | | <1 | | | 15 |
| | | | | | Become brown, moist | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 18 | 5 | CS | 22/48 | | | | | | | | | | | 18 |
| | | | | | | | | | | | 0.2 | | | |
| | | | | | FAT CLAY (CH): Brown, stiff | | 2 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
**BORING NUMBER** SCI-17
**LOCATION** St. Louis, Missouri
**SHEET** 1 **of** 1
**DRILLER** Geo Drill
**HAMMER** --
**PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500
**ELEVATION**
**DATE DRILLED** 12/18/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Crushed brick and concrete | | 1 | | | | <1 | | | |
| | 1 | CS | 18/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | FILL: Crushed brick, cinders, moist | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 6 | 2 | CS | 22/48 | | | | | | | | | | | 6 |
| | | | | | | | | | | | <1 | | | |
| | | | | | With gravel, moist | | | | | | | | | |
| 9 | | | | | | | | | | | 0.2 | | | 9 |
| | 3 | CS | 14/48 | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 14/48 | | | | | | | | | | | |
| | | | | | FILL: Gray, lean clay, moist | | | | | | | | | |
| 15 | | | | | | | | | | | 0.2 | | | 15 |
| | | | | | FILL: Crushed brick and gravel | | | | | | | | | |
| | | | | | LEAN CLAY (CL): Gray | | | | | | 0.2 | | | |
| | | | | | | | 2 | | | | | | | |
| 18 | 5 | CS | 19/48 | | | | | | | | | | | 18 |
| | | | | | | | | | | | 0.4 | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

| | |
|---|---|
| | NONE OBSERVED WHILE DRILLING |
| 18 | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
**BORING NUMBER** SCI-20
**LOCATION** St. Louis, Missouri
**SHEET** 1 **of** 1
**DRILLER** Geo Drill
**HAMMER** --
**PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500
**ELEVATION**
**DATE DRILLED** 12/21/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Crushed brick and concrete, cinders, with brown lean clay | | 1 | | | | <1 | | | |
| | 1 | CS | 21/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | FILL: Brown, lean clay, trace crushed brick and cinders | | | | | | 0.4 | | | |
| 6 | 2 | CS | 21/48 | | | | | | | | | | | 6 |
| | | | | | | | | | | | 0.2 | | | |
| | | | | | LEAN CLAY (CL): Brown | | | | | | | | | |
| 9 | | | | | | | | | | | 0.1 | | | 9 |
| | 3 | CS | 12/48 | | | | | | | | | | | |
| | | | | | | | | | | | 0.5 | | | |
| 12 | | | | | Becomes brown, with gray | | | | | | | | | 12 |
| | | | | | | | 2 | | | | 1.1 | | | |
| | 4 | CS | 17/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | 0.1 | | | 15 |
| | | | | | Becomes brown and gray | | | | | | | | | |
| 18 | 5 | CS | 13/48 | | | | 3 | | | | | | | 18 |

Boring terminated at 20 feet.

**WATER LEVEL:**

| | |
|---|---|
| X | NONE OBSERVED WHILE DRILLING |
| | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
**BORING NUMBER** SCI-21
**LOCATION** St. Louis, Missouri
**SHEET** 1 **of** 1
**DRILLER** Geo Drill
**HAMMER** --
**PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500
**ELEVATION**
**DATE DRILLED** 12/21/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown, lean clay, with gravel, and crushed brick | | 1 | | | | <1 | | | |
| | 1 | CS | 21/48 | | | | | | | | | | | |
| 3 | | | | | LEAN CLAY (CL): Brown | | | | | | <1 | | | 3 |
| | | | | | | | 2 | | | | | | | |
| | | | | | | | | | | | 0.5 | | | |
| 6 | 2 | CS | 25/48 | | | | | | | | | | | 6 |
| | | | | | | | | | | | 1.0 | | | |
| | | | | | Becomes moist | | | | | | | | | |
| 9 | | | | | | | | | | | 0.1 | | | 9 |
| | 3 | CS | 27/48 | | | | | | | | | | | |
| | | | | | | | | | | | 0.3 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 18/48 | | FAT CLAY (CH): Gray | | | | | | | | | |
| 15 | | | | | LEAN CLAY (CL): Brown | | | | | | 0.2 | | | 15 |
| | | | | | | | | | | | 0.2 | | | |
| 18 | 5 | CS | 11/48 | | Becomes gray | | | | | | | | | 18 |
| | | | | | | | 3 | | | | 0.1 | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

| | |
|---|---|
| X | NONE OBSERVED WHILE DRILLING |
| | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-22
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** Geo Drill **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500 **ELEVATION** **DATE DRILLED** 12/21/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 8" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Gravel, crushed brick, with brown, lean clay | | 1 | | | | 0.3 | | | |
| | 1 | CS | 23/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | 1.0 | | | 3 |
| | | | | | With crushed brick and concrete, and cinders | | | | | | | | | |
| | | | | | | | | | | | 0.6 | | | |
| 6 | 2 | CS | 26/48 | | | | | | | | | | | 6 |
| | | | | | | | | | | | 0.4 | | | |
| | | | | | With crushed brick and cinders | | | | | | | | | |
| 9 | | | | | | | 2 | | | | 1.2 | | | 9 |
| | 3 | CS | 19/48 | | Becomes medium plastic | | | | | | | | | |
| | | | | | Becomes moist | | | | | | 0.7 | | | |
| 12 | | | | | LEAN CLAY (CL): Gray, saturated | | | | | | | | | 12 |
| | | | | | | | | | | | 1.2 | | | |
| | 4 | CS | 3/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | | | | | 0.8 | | | |
| 18 | 5 | CS | 2/48 | | | | 3 | | | | | | | 18 |

Boring terminated at 20 feet.

**WATER LEVEL:**

| | |
|---|---|
| | NONE OBSERVED WHILE DRILLING |
| 12 | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-23
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** Geo Drill **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500 **ELEVATION** **DATE DRILLED** 12/21/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Crushed brick | | 1 | | | | 0.2 | | | |
| | 1 | CS | 12/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | 3 |
| | | | | | With cinders | | | | | | | | | |
| | | | | | FILL: Brown and gray, lean clay, stiff | | | | | | <1 | | | |
| 6 | 2 | CS | 28/48 | | | | | | | | | | | 6 |
| | | | | | Becomes moist | | | | | | <1 | | | |
| | | | | | Becomes gray | | | | | | | | | |
| 9 | | | | | | | 2 | | | | 1.0 | | | 9 |
| | 3 | CS | 28/48 | | | | | | | | | | | |
| | | | | | | | | | | | 0.7 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | 0.7 | | | |
| | 4 | CS | 21/48 | | | | | | | | | | | |
| 15 | | | | | Trace crushed brick and cinders | | | | | | <1 | | | 15 |
| | | | | | LEAN CLAY (CL): Gray, moist | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 18 | 5 | CS | 26/48 | | | | | | | | | | | 18 |
| | | | | | Becomes brown and gray | | | | | | 0.4 | | | |
| | | | | | Becomes medium plastic | | 3 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-24
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** Geo Drill **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500 **ELEVATION** **DATE DRILLED** 12/21/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Crushed brick and concrete, with brown lean clay | | 1 | | | | 0.7 | | | |
| | 1 | CS | 13/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | 0.9 | | | 3 |
| | | | | | FAT CLAY (CH): Brown *(Possibly fill)* | | 2 | | | | 0.9 | | | |
| 6 | 2 | CS | 21/48 | | | | | | | | | | | 6 |
| | | | | | LEAN CLAY (CL): Brown, moist *(Possibly fill)* | | | | | | 0.2 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | 3 | CS | 21/48 | | | | | | | | | | | |
| | | | | | | | | | | | 0.2 | | | |
| 12 | | | | | Becomes gray and brown, moist | | | | | | | | | 12 |
| | | | | | | | | | | | 0.4 | | | |
| | 4 | CS | 10/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | Becomes dark gray, moist | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 18 | 5 | CS | 20/48 | | | | | | | | | | | 18 |
| | | | | | Becomes gray | | | | | | <1 | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

| | |
|---|---|
| X | NONE OBSERVED WHILE DRILLING |
| | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-25
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** Geo Drill **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500 **ELEVATION** **DATE DRILLED** 12/21/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 3" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Sand, crushed brick and concrete | | 1 | | | | 1.3 | | | |
| | 1 | CS | 14/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | 3 |
| | | | | | FILL: Crushed brick | | | | | | | | | |
| | | | | | FILL: Brown, lean clay, stiff moist | | | | | | 0.2 | | | |
| 6 | 2 | CS | 23/48 | | | | | | | | | | | 6 |
| | | | | | | | | | | | 0.2 | | | |
| 9 | | | | | | | | | | | 0.5 | | | 9 |
| | 3 | CS | 20/48 | | | | | | | | | | | |
| | | | | | Becomes gray | | | | | | 0.5 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | With crushed brick | | | | | | <1 | | | |
| | 4 | CS | 19/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | LEAN CLAY (CL): Dark gray | | 2 | | | | | | | |
| | | | | | | | | | | | 0.5 | | | |
| 18 | 5 | CS | 16/48 | | | | | | | | | | | 18 |
| | | | | | Becomes gray | | | | | | <1 | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
**BORING NUMBER** SCI-26
**LOCATION** St. Louis, Missouri
**SHEET** 1 **of** 1
**DRILLER** Geo Drill
**HAMMER** --
**PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500
**ELEVATION**
**DATE DRILLED** 12/21/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Crushed brick | | 1 | | | | 0.8 | | | |
| | 1 | CS | 23/48 | | LEAN CLAY (CL): Brown | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | Becomes moist | | | | | | | | | |
| | | | | | | | 2 | | | | 0.8 | | | |
| 6 | 2 | CS | 22/48 | | | | | | | | | | | 6 |
| | | | | | | | | | | | 0.9 | | | |
| 9 | | | | | | | | | | | 0.5 | | | 9 |
| | 3 | CS | 37/48 | | | | | | | | | | | |
| | | | | | | | | | | | 0.1 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 30/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | | | | | | | <1 | | | |
| 18 | 5 | CS | | | | | | | | | | | | 18 |
| | | | | | FAT CLAY (CH): Brown | | 3 | | | | <1 | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
**BORING NUMBER** SCI-27
**LOCATION** St. Louis, Missouri
**SHEET** 1 **of** 1
**DRILLER** Geo Drill
**HAMMER** --
**PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500
**ELEVATION**
**DATE DRILLED** 12/21/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 5" TOPSOIL | | | | | | | | | |
| | | | | | CRUSHED ROCK | | 1 | | | | <1 | | | |
| | 1 | CS | 15/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | <1 | | | |
| 6 | 2 | CS | 26/48 | | LEAN CLAY (CL): Brown, moist | | | | | | | | | 6 |
| | | | | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | 3 | CS | 30/48 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 34/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | | | | | | | <1 | | | |
| 18 | 5 | CS | | | FAT CLAY (CH): Reddish-brown and tan | | 2 | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | 3 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil samples submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-28
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** Geo Drill **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500 **ELEVATION** **DATE DRILLED** 12/21/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | LABORATORY TEST RESULTS: MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown, lean clay, trace brick and gravel | | 1 | | | | | | | |
| | 1 | CS | 15/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | 3 |
| | | | | | With crushed brick and cinders | | | | | | | | | |
| 6 | 2 | CS | 22/48 | | LEAN CLAY (CL): Brown | | | | | | | | | 6 |
| 9 | | | | | | | | | | | | | | 9 |
| | 3 | CS | 47/48 | | | | | | | | | | | |
| | | | | | Becomes moist | | | | | | | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | 4 | CS | 39/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | 2 | | | | | | | |
| 18 | 5 | CS | 31/48 | | | | 3 | | | | | | | 18 |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
**BORING NUMBER** SCI-29
**LOCATION** St. Louis, Missouri
**SHEET** 1 **of** 1
**DRILLER** Geo Drill
**HAMMER** --
**PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500
**ELEVATION**
**DATE DRILLED** 12/21/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown, fat clay, with crushed brick, gravel, and cinders | | 1 | | | | <1 | | | |
| | 1 | CS | 24/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | FILL: Dark brown, lean clay, trace brick and cinders | | | | | | <1 | | | |
| 6 | 2 | CS | 21/48 | | | | | | | | | | | 6 |
| | | | | | Becomes moist | | 2 | | | | <1 | | | |
| | 3 | CS | 0/12 | | NO RECOVERY | | | | | | | | | |
| 9 | | | | | Probe refusal at 9 feet. | | | | | | | | | 9 |
| 12 | | | | | | | | | | | | | | 12 |
| 15 | | | | | | | | | | | | | | 15 |
| 18 | | | | | | | | | | | | | | 18 |

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-30
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** Geo Drill **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500 **ELEVATION** **DATE DRILLED** 12/22/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | FILL: Sand, with crushed rock, crushed brick, and cinders | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| | | | | | FILL: Brown, lean clay, with crushed brick and crushed rock | | | | | | | | | |
| | 1 | CS | 14/48 | | | | 1 | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | FILL: Crushed rock and crushed brick | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 6 | 2 | CS | 15/48 | | LEAN CLAY (CL): Brown, stiff | | | | | | | | | 6 |
| | | | | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | 3 | CS | 20/48 | | | | | | | | | | | |
| | | | | | Becomes moist | | | | | | <1 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | Becomes brown and gray | | | | | | <1 | | | |
| | 4 | CS | | | | | | | | | | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | Becomes brown, moist | | | | | | | | | |
| | | | | | | | 2 | | | | <1 | | | |
| 18 | 5 | CS | 48/48 | | | | | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil samples submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
**BORING NUMBER** SCI-31
**LOCATION** St. Louis, Missouri
**SHEET** 1 **of** 1
**DRILLER** Geo Drill
**HAMMER** --
**PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500
**ELEVATION**
**DATE DRILLED** 12/22/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 3" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Crushed brick and cinders, with stiff, brown, lean clay | | 1 | | | | <1 | | | |
| | 1 | CS | 19/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | FILL: Brown and gray, lean clay, trace cinders and sand | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 6 | 2 | CS | 12/48 | | | | | | | | | | | 6 |
| | | | | | LEAN CLAY (CL): Brown, moist | | | | | | | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | 3 | CS | 15/48 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 38/48 | | | | | | | | | | | |
| | | | | | FAT CLAY (CH): Brown, with gravel | | | | | | | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | SILT (ML): Gray | | | | | | | | | |
| | | | | | Becomes gray and brown, stiff | | | | | | | | | |
| | | | | | | | 2 | | | | <1 | | | |
| 18 | 5 | CS | 48/48 | | | | | | | | | | | 18 |
| | | | | | | | 3 | | | | <1 | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-32
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** Geo Drill **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500 **ELEVATION** **DATE DRILLED** 12/22/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | LABORATORY TEST RESULTS: MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 3" TOPSOIL | | | | | | | | | |
| | | | | | LEAN CLAY (CL): Brown, stiff | | 1 | | | | <1 | | | |
| | 1 | CS | 26/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| 6 | 2 | CS | 46/48 | | Becomes moist | | | | | | | | | 6 |
| | | | | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | 3 | CS | 48/48 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 35/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | | | 2 | | | | <1 | | | |
| 18 | 5 | CS | 34/48 | | | | | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-33
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** Geo Drill **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500 **ELEVATION** **DATE DRILLED** 12/22/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Crushed brick and concrete, trace cinders, with brown lean clay, petroleum odor observed | | 1 | | | | 16.0 | | | |
| | 1 | CS | 21/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | 27.4 | | | 3 |
| | | | | | LEAN CLAY (CL): Brown, stiff | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 6 | 2 | CS | 35/48 | | | | | | | | | | | 6 |
| | | | | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | 3 | CS | 42/48 | | Becomes moist | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 41/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | | | | | | | <1 | | | |
| 18 | 5 | CS | 33/48 | | | | 2 | | | | | | | 18 |
| | | | | | | | 3 | | | | <1 | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-34
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** Geo Drill **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500 **ELEVATION** **DATE DRILLED** 12/22/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 2" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Crushed asphalt and rock, with brown, lean clay | | 1 | | | | <1 | | | |
| | 1 | CS | 14/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | 3 |
| | | | | | FILL: Crushed asphalt and crushed brick, with brown, lean clay | | | | | | <1 | | | |
| 6 | 2 | CS | 12/48 | | | | | | | | | | | 6 |
| | | | | | FILL: Crushed brick, sand, and cinders, with brown, lean clay | | | | | | | | | |
| 9 | | | | | LEAN CLAY (CL): Brown | | | | | | <1 | | | 9 |
| | 3 | CS | 31/48 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | Becomes moist | | | | | | | | | 12 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 27/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | | | | | | | <1 | | | |
| 18 | 5 | CS | 29/48 | | | | 2 | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil samples submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-35
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 2
**DRILLER** Geo Drill **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500 **ELEVATION** **DATE DRILLED** 12/22/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | LABORATORY TEST RESULTS: MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 3" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown, lean clay, trace crushed brick, cinders, and gravel | | | | | | <1 | | | |
| | 1 | CS | 23/48 | | LEAN CLAY (CL): Brown, moist | | 1 | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| 6 | 2 | CS | 34/48 | | | | | | | | | | | 6 |
| | | | | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | 3 | CS | 30/48 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 32/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | FAT CLAY (CH): Brown, trace gravel | | | | | | | | | |
| | | | | | Becomes wet | | 2<br>3 | | | | <1 | | | |
| 18 | 5 | CS | | | | | | | | | | | | 18 |

**WATER LEVEL:**

| | |
|---|---|
| | NONE OBSERVED WHILE DRILLING |
| 17 | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-35
**LOCATION** St. Louis, Missouri **SHEET** 2 **of** 2
**DRILLER** Geo Drill **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500 **ELEVATION** **DATE DRILLED** 12/22/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | LABORATORY TEST RESULTS: MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Boring terminated at 20 feet. | | | | | | | | | |
| 21 | | | | | | | | | | | | | | 21 |
| 24 | | | | | | | | | | | | | | 24 |
| 27 | | | | | | | | | | | | | | 27 |
| 30 | | | | | | | | | | | | | | 30 |
| 33 | | | | | | | | | | | | | | 33 |
| 36 | | | | | | | | | | | | | | 36 |
| 39 | | | | | | | | | | | | | | 39 |

**WATER LEVEL:**

| | |
|---|---|
| | NONE OBSERVED WHILE DRILLING |
| 17 | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-36
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** Geo Drill **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500 **ELEVATION** **DATE DRILLED** 12/17/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 5" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Crushed brick and concrete, cinders, and gravel | | 1 | | | | <1 | | | |
| | 1 | CS | 18/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | FILL: Sand and gravel, with crushed brick and concrete | | | | | | <1 | | | |
| 6 | 2 | CS | 8/48 | | | | | | | | | | | 6 |
| | | | | | LEAN CLAY (CL): Brown, moist | | | | | | | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | 3 | CS | 25/48 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 32/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | | | | | | | <1 | | | |
| 18 | 5 | CS | 25/48 | | | | 2 | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |
| | | | | | FAT CLAY (CH): Brown | | 3 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-37
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** Geo Drill **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500 **ELEVATION** **DATE DRILLED** 12/22/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown, lean clay, trace crushed brick | | 1 | | | | <1 | | | |
| | 1 | CS | 23/48 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | FILL: Crushed brick, with brown lean clay | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 6 | 2 | CS | 13/48 | | | | | | | | | | | 6 |
| | | | | | No clay | | | | | | | | | |
| 9 | | | | | LEAN CLAY (CL): Brown, moist | | | | | | <1 | | | 9 |
| | 3 | CS | 31/48 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 41/48 | | FAT CLAY (CH): Brown, trace gravel | | | | | | | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | 5 | CS | | | | | 2 | | | | <1 | | | |
| 18 | | | | | Becomes wet | | 3 | | | | | | | 18 |
| | | | | | Probe refusal at 18.4 feet. | | | | | | <1 | | | |

**WATER LEVEL:**

| | |
|---|---|
| | NONE OBSERVED WHILE DRILLING |
| 18 | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-38
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** Geo Drill **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500 **ELEVATION** **DATE DRILLED** 12/22/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown, lean clay, with crushed brick, trace cinders and debris | | 1 | | | | <1 | | | |
| | 1 | CS | 22/48 | | | | | | | | | | | |
| 3 | | | | | LEAN CLAY (CL): Brown | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| 6 | 2 | CS | 45/48 | | | | | | | | | | | 6 |
| | | | | | Becomes moist | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | 3 | CS | 45/48 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 31/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | | | | | | | <1 | | | |
| 18 | 5 | CS | 27/48 | | | | 2 | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |
| | | | | | Becomes medium plastic | | | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-39
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** Geo Drill **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** AMS 9500 **ELEVATION** **DATE DRILLED** 12/22/15

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | LABORATORY TEST RESULTS: MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Crushed brick, with brown, lean clay | | 1 | | | | <1 | | | |
| | 1 | CS | 26/48 | | LEAN CLAY (CL): Brown | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| 6 | 2 | CS | 43/48 | | | | | | | | | | | 6 |
| | | | | | Becomes moist | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | 3 | CS | 37/48 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 31/48 | | | | | | | | | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | | | 2 | | | | <1 | | | |
| 18 | 5 | CS | 21/48 | | | | | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-40
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/11/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | LABORATORY TEST RESULTS: MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown, lean clay, trace brick and cinders | | 1 | | | | <1 | | | |
| | 1 | CS | 55/60 | | | | | | | | | | | |
| 3 | | | | | LEAN CLAY (CL): Brown | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 60/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | | | | | | | <1 | | | |
| 12 | 3 | CS | 60/60 | | | | | | | | <1 | | | 12 |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 50/60 | | | | | | | | | | | |
| 18 | | | | | Becomes moist | | | | | | <1 | | | 18 |
| | | | | | | | 2 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil samples submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-41
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/11/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 15" TOPSOIL | | 1 | | | | | | | |
| | | | | | FILL: Brown, lean clay, with crushed brick and cinders | | | | | | <1 | | | |
| | 1 | CS | 48/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| | | | | | Becomes brown and dark gray, with crushed brick and concrete | | | | | | | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 41/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | Becomes dark gray, with crushed brick | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 35/60 | | | | | | | | | | | |
| | | | | | LEAN CLAY (CL): Brown, moist | | | | | | <1 | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | 2 | | | | <1 | | | |
| | 4 | CS | 52/60 | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | 3 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-42
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/11/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 8" TOPSOIL | | | | | | | | | |
| | | | | | LEAN CLAY (CL): Brown, stiff | | 1 | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| | 1 | CS | 60/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| | | | | | Becomes moist | | | | | | | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 58/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 60/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | 2 | | | | <1 | | | |
| | 4 | CS | 55/60 | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-43
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/11/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | LABORATORY TEST RESULTS: MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown, lean clay, with crushed concrete and brick | | 1 | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| | 1 | CS | 46/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | Becomes gray and brown, with cinders | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 50/60 | | Becomes gray, no concrete, brick, or cinders | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | With crushed rock | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | Becomes moist, no crushed rock | | | | | | <1 | | | 12 |
| | 3 | CS | 53/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | Trace crushed brick | | | | | | | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | 2 | | | | <1 | | | |
| | 4 | CS | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |
| | | | | | Becomes brown | | | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

| | |
|---|---|
| X | NONE OBSERVED WHILE DRILLING |
| | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-44
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/11/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown, lean clay, with crushed brick and concrete, and cinders | | 1 | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| | 1 | CS | 37/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| | | | | | Becomes wet, trace crushed brick and cinders | | | | | | | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | | | | | LEAN CLAY (CL): Brown with gray | | | | | | | | | |
| | 2 | CS | 56/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | Becomes moist | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 42/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | 2 | | | | <1 | | | |
| | 4 | CS | 60/60 | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-45
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe6600 **ELEVATION** **DATE DRILLED** 01/11/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | LABORATORY TEST RESULTS: MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown, lean clay, with crushed brick and cinders, wet | | 1 | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| | 1 | CS | 32/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 44/60 | | | | | | | | <1 | | | |
| | | | | | LEAN CLAY (CL): Brown, moist | | | | | | | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 55/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | 2 | | | | <1 | | | |
| | 4 | CS | 26/60 | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | 3 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

| | |
|---|---|
| X | NONE OBSERVED WHILE DRILLING |
| | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-46
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/11/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | LABORATORY TEST RESULTS: MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 5" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Crushed brick and concrete | | 1 | | | | <1 | | | |
| | | | | | FILL: Brown, lean clay, moist | | | | | | | | | |
| | 1 | CS | 29/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 60/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | Trace crushed concrete and brick | | | | | | <1 | | | |
| 12 | 3 | CS | 55/60 | | | | | | | | <1 | | | 12 |
| | | | | | LEAN CLAY (CL): Brown, moist | | | | | | <1 | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | | | 2 | | | | <1 | | | |
| 18 | 4 | CS | 58/60 | | | | | | | | <1 | | | 18 |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-47
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/12/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | LABORATORY TEST RESULTS: MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 2" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Dark brown, lean clay, trace brick | | 1 | | | | | | | |
| | | | | | LEAN CLAY (CL): Brown | | | | | | <1 | | | |
| | 1 | CS | 53/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 60/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 60/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | Becomes moist | | | | | | | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | 2 | | | | | | | |
| | | | | | | | 3 | | | | <1 | | | |
| | 4 | CS | 60/60 | | | | | | | | | | | |
| 18 | | | | | FAT CLAY (CH): Reddish-brown, stiff | | | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | 4 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

| | |
|---|---|
| X | NONE OBSERVED WHILE DRILLING |
| | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil samples submitted for environmental laboratory analysis.
3) Soil sample submitted for environmental laboratory analysis.
4) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-48
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/12/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | LABORATORY TEST RESULTS: MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 5" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Dark brown, lean clay, trace cinders | | | | | | | | | |
| | | | | | LEAN CLAY (CL): Brown | | 1 | | | | <1 | | | |
| | 1 | CS | 56/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| | | | | | Becomes moist | | | | | | | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 60/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 40/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | 2 | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 60/60 | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

| | |
|---|---|
| X | NONE OBSERVED WHILE DRILLING |
| | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-49
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/12/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Dark brown, lean clay | | | | | | | | | |
| | | | | | LEAN CLAY (CL): Brown, stiff | | 1 | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| | 1 | CS | 60/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| | | | | | Becomes moist | | | | | | | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 60/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 43/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | | | | | 2 | | | | | | | |
| 18 | | | | | FAT CLAY (CH): Reddish-brown, trace gravel, stiff | | | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

| | |
|---|---|
| X | NONE OBSERVED WHILE DRILLING |
| | ft WHILE DRILLING |
| | ft ____ HRS AFTER DRILLING |
| | ft ____ DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-50
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/12/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | LABORATORY TEST RESULTS: MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 3" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Dark brown, lean clay | | 1 | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| | 1 | CS | 56/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | LEAN CLAY (CL): Brown, moist | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 60/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 32/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 35/60 | | | | | | | | | | | |
| 18 | | | | | | | 2 | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |
| | | | | | Becomes wet, trace weathered rock | | | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-51
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/12/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown, lean clay, with crushed concrete and brick | | 1 | | | | <1 | | | |
| | 1 | CS | 52/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| | | | | | Trace crushed concrete and brick | | | | | | | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 60/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | LEAN CLAY (CL): Brown, moist | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 50/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 60/60 | | | | 2 | | | | | | | |
| 18 | | | | | | | | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-52
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/12/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Dark brown, lean clay, with crushed brick and concrete, and cinders | | 1 | | | | | | | |
| | 1 | CS | 28/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | 3 |
| 6 | | | | | | | | | | | | | | 6 |
| | 2 | CS | 34/60 | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | 9 |
| | | | | | FILL: Crushed brick and concrete, cinders | | | | | | | | | |
| | 3 | CS | 30/36 | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | 12 |
| | | | | | LEAN CLAY (CL): Brown, moist | | 2 | | | | | | | |
| 15 | | | | | Probe refusal at 15 feet. | | | | | | | | | 15 |
| 18 | | | | | | | | | | | | | | 18 |

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-53
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/12/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown, lean clay, with crushed brick and concrete, and cinder | | 1 | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| | 1 | CS | 43/60 | | | | | | | | | | | |
| 3 | | | | | Becomes moist, no crushed brick, concrete, or cinders | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| | | | | | Trace crushed concrete | | | | | | | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | | | | | LEAN CLAY (CL): Brown, moist | | | | | | | | | |
| | 2 | CS | 60/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 60/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 48/60 | | | | 2 | | | | | | | |
| 18 | | | | | FAT CLAY (CH): Reddish-brown, trace gravel | | | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | 3 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

| | |
|---|---|
| X | NONE OBSERVED WHILE DRILLING |
| | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-54
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/12/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 8" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Dark brown, lean clay, with crushed concrete and brick, cinders | | 1 | | | | <1 | | | |
| | 1 | CS | 40/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| | | | | | Becomes brown and gray, trace cinders and crushed concrete | | | | | | | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 31/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | LEAN CLAY (CL): Brown, moist | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 9/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 60/60 | | | | | | | | | | | |
| 18 | | | | | | | 2 | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |
| | | | | | Becomes medium plastic | | | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil samples submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-55
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/11/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | LABORATORY TEST RESULTS: MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Dark brown, lean clay, with crushed brick and concrete, and cinders | | 1 | | | | | | | |
| | | | | | LEAN CLAY (CL): Brown, stiff | | | | | | <1 | | | |
| | 1 | CS | 60/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 60/60 | | | | | | | | <1 | | | |
| 9 | | | | | Becomes moist | | | | | | <1 | | | 9 |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 56/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 33/60 | | | | | | | | | | | |
| 18 | | | | | Becomes wet | | 2 | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | 3 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

| | |
|---|---|
| X | NONE OBSERVED WHILE DRILLING |
| | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer isntalled.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-57
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/12/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 8" TOPSOIL | | | | | | | | | |
| | | | | | CRUSHED LIMESTONE | | 1 | | | | <1 | | | |
| | 1 | CS | 36/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | | | | | LEAN CLAY (CL): Brown, moist | | | | | | | | | |
| | 2 | CS | 32/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 21/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 20/60 | | | | | | | | | | | |
| 18 | | | | | | | 2 | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-58
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/12/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 2" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Dark brown, lean clay, with crushed brick and concrete, and cinders | | 1 | | | | <1 | | | |
| | 1 | CS | 43/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| | | | | | No cinders | | | | | | | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 29/60 | | | | | | | | | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | FILL: Crushed brick and concrete with cinders | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 36/60 | | | | 2 | | | | | | | |
| | | | | | LEAN CLAY (CL): Brown, wet | | | | | | <1 | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 28/36 | | | | | | | | | | | |
| | | | | | FAT CLAY (CH): Brown, stiff | | 3 | | | | <1 | | | |
| 18 | | | | | Probe refusal at 18 feet. | | | | | | | | | 18 |

**WATER LEVEL:**

| | |
|---|---|
| X | NONE OBSERVED WHILE DRILLING |
| | ft WHILE DRILLING |
| | ft ____ HRS AFTER DRILLING |
| | ft ____ DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-59
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/12/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | FILL: Dark brown, lean clay, with crushed brick and concrete, and cinders | | 1 | | | | <1 | | | |
| 3 | 1 | CS | 40/60 | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| 6 | | | | | LEAN CLAY (CL): Brown, moist | | | | | | <1 | | | 6 |
| | 2 | CS | 35/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | | | | | | | <1 | | | |
| 12 | 3 | CS | 60/60 | | | | | | | | <1 | | | 12 |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | Becomes stiff | | | | | | <1 | | | 15 |
| | | | | | FAT CLAY (CH): Reddish-brown, trace gravel, stiff | | | | | | | | | |
| | 4 | CS | 48/48 | | | | 2 | | | | <1 | | | |
| 18 | | | | | | | | | | | | | | 18 |
| | | | | | Probe refusal at 19 feet. | | | | | | | | | |

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-61
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/13/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | LABORATORY TEST RESULTS: MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 2" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown and gray, lean clay, with crushed brick and concrete, and cinders | | 1 | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| | 1 | CS | 50/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| | | | | | Trace brick and cinders | | | | | | | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | | | | | LEAN CLAY (CL): Brown | | | | | | | | | |
| | 2 | CS | 55/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 55/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| | | | | | Becomes moist | | | | | | | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 60/60 | | | | | | | | | | | |
| 18 | | | | | FAT CLAY (CH): Reddish-brown, trace gravel, stiff | | 2 | | | | <1 | | | 18 |

Boring terminated at 20 feet.

**WATER LEVEL:**

| | |
|---|---|
| | NONE OBSERVED WHILE DRILLING |
| 19 | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-63
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/13/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 2" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown and gray, lean clay, with cinders, trace brick and debris | | 1 | | | | <1 | | | |
| | | | | | LEAN CLAY (CL): Brown, moist | | | | | | | | | |
| | 1 | CS | 60/60 | | | | | | | | <1 | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 60/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 60/60 | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 60/60 | | | | | | | | <1 | | | |
| 18 | | | | | FAT CLAY (CH): Reddish-brown, trace gravel, stiff | | 2 | | | | <1 | | | 18 |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-64
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/13/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | LABORATORY TEST RESULTS: MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | FILL: Brown and gray lean clay, with crushed asphalt and cinders, trace brick | | 1 | | | | <1 | | | |
| | 1 | CS | 48/60 | | | | | | | | | | | |
| 3 | | | | | LEAN CLAY (CL): Brown | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| | | | | | Becomes moist | | | | | | | | | |
| 6 | | | | | | | | | | | 4.4 | | | 6 |
| | | | | | Observed petroleum odor | | | | | | | | | |
| | 2 | CS | 52/60 | | | | | | | | 2.0 | | | |
| 9 | | | | | | | | | | | 0.3 | | | 9 |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 60/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | 0.6 | | | 15 |
| | | | | | | | | | | | 1.9 | | | |
| | 4 | CS | 60/60 | | FAT CLAY (CH): Reddish-brown, trace gravel, stiff, petroleum odor observed | | 2 | | | | | | | |
| 18 | | | | | | | | | | | 5.2 | | | 18 |
| | | | | | | | 3 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-65
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/13/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 2" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown, lean clay, with crushed brick and cinders | | 1 | | | | <1 | | | |
| | 1 | CS | 35/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | LEAN CLAY (CL): Brown, moist | | | | | | <1 | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 54/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 60/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| | | | | | Becomes medium plastic | | | | | | | | | |
| 15 | | | | | FAT CLAY (CH): Reddish-brown, trace gravel, stiff, with weathered rock | | | | | | <1 | | | 15 |
| | 4 | CS | 22/24 | | | | | | | | <1 | | | |
| | | | | | Probe refusal at 17 feet. | | | | | | | | | |
| 18 | | | | | | | | | | | | | | 18 |

**WATER LEVEL:**

| | |
|---|---|
| X | NONE OBSERVED WHILE DRILLING |
| | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-66
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/13/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown, lean clay, trace brick and cinders | | 1 | | | | <1 | | | |
| 3 | 1 | CS | 13/60 | | | | | | | | | | | 3 |
| | | | | | Becomes dark brown, with crushed brick and concrete, and cinders | | | | | | | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 36/60 | | | | | | | | <1 | | | |
| | | | | | LEAN CLAY (CL): Brown, moist | | | | | | | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | Becomes saturated | | | | | | <1 | | | |
| | | | | | | | 2 | | | | | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 60/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | Trace gravel | | | | | | | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 40/60 | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | 3 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

| | |
|---|---|
| | NONE OBSERVED WHILE DRILLING |
| 11 | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-67
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/13/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | LABORATORY TEST RESULTS: MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 3" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Dark brown, lean clay, with crushed brick and concrete, and cinders | | 1 | | | | <1 | | | |
| | | | | | LEAN CLAY (CL): Brown | | | | | | | | | |
| | 1 | CS | 48/60 | | | | | | | | <1 | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 55/60 | | Becomes moist | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | | | | | | | <1 | | | |
| 12 | 3 | CS | 58/60 | | | | | | | | <1 | | | 12 |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | 4 | CS | | | | | 2 | | | | <1 | | | |
| 18 | | | | | Becomes medium plastic | | 3 | | | | <1 | | | 18 |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-68
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/13/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 2" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown, lean clay, trace brick | | 1 | | | | <1 | | | |
| | | | | | LEAN CLAY (CL): Brown, stiff | | | | | | | | | |
| | 1 | CS | 50/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| | | | | | Becomes moist | | | | | | | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 58/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 58/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | 2 | | | | <1 | | | |
| | 4 | CS | 58/60 | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |
| | | | | | Becomes medium plastic | | 3 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

| | |
|---|---|
| X | NONE OBSERVED WHILE DRILLING |
| | ft WHILE DRILLING |
| | ft HRS AFTER DRILLING |
| | ft DAYS AFTER DRILLING |

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-69
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/13/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Dark brown, lean clay, with crushed brick, cinders and crushed rock | | 1 | | | | <1 | | | |
| | 1 | CS | 41/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| | | | | | With crushed concrete | | | | | | | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 50/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | FILL: Crushed concrete | | | | | | | | | |
| | | | | | LEAN CLAY (CL): Brown, moist | | | | | | <1 | | | |
| 12 | | | | | | | | | | | <1 | | | 12 |
| | 3 | CS | 42/60 | | | | | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 50/60 | | FAT CLAY (CH): Reddish-brown, trace gravel | | 2 | | | | | | | |
| 18 | | | | | | | | | | | | | | 18 |
| | | | | | | | | | | | <1 | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-70
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/13/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown, lean clay, with crushed brick, concrete, and cinders | | 1 | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| | 1 | CS | 36/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| | | | | | FILL: Crushed concrete | | | | | | | | | |
| 6 | | | | | LEAN CLAY (CL): Brown | | | | | | <1 | | | 6 |
| | 2 | CS | 34/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | Becomes moist | | | | | | <1 | | | |
| 12 | 3 | CS | 45/60 | | | | | | | | | | | 12 |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | | | | | | | <1 | | | |
| | 4 | CS | 52/60 | | | | | | | | | | | |
| 18 | | | | | | | 2 | | | | <1 | | | 18 |
| | | | | | | | 3 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Soil sample submitted for environmental laboratory analysis.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-71
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/13/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | LABORATORY TEST RESULTS: MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 2" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Dark brown, lean clay, trace crushed brick | | 1 | | | | | | | |
| | | | | | LEAN CLAY (CL): Brown | | | | | | <1 | | | |
| | 1 | CS | 32/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 38/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | Becomes moist | | | | | | <1 | | | |
| 12 | 3 | CS | 52/60 | | | | | | | | <1 | | | 12 |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | | | 2 | | | | <1 | | | |
| 18 | 4 | CS | 55/60 | | | | | | | | <1 | | | 18 |
| | | | | | | | 3 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-75
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/13/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | ASPHALTIC CONCRETE | | | | | | | | | |
| | | | | | FILL: Dark brown, lean clay, with crushed brick and concrete | | 1 | | | | | | | |
| | | | | | | | | | | | <1 | | | |
| | 1 | CS | 27/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | | | | | | | <1 | | | |
| | | | | | Becomes red and gray, no crushed brick or concrete | | | | | | | | | |
| 6 | | | | | LEAN CLAY (CL): Brown, moist | | | | | | <1 | | | 6 |
| | 2 | CS | 50/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | | | | | | | <1 | | | |
| 12 | 3 | CS | 58/60 | | | | | | | | <1 | | | 12 |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | | | 2 | | | | <1 | | | |
| | 4 | CS | 48/60 | | | | | | | | | | | |
| 18 | | | | | | | | | | | <1 | | | 18 |
| | | | | | | | 3 | | | | | | | |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.
3) Piezometer installed.

# BORING LOG

**PROJECT** NATIONAL GEOSPATIAL INTELLIGENCE AGENCY **BORING NUMBER** SCI-77
**LOCATION** St. Louis, Missouri **SHEET** 1 **of** 1
**DRILLER** PSA Environmental **HAMMER** -- **PROJECT NO.** 2015-0461.21
**EQUIPMENT** Geoprobe 6600 **ELEVATION** **DATE DRILLED** 01/13/16

| DEPTH (ft) | SAMPLE NUMBER | SAMPLE TYPE | SAMPLE RECOVERY (in/in) | SAMPLE BLOWS (per 6 in) | DESCRIPTION (UNIFIED SOIL CLASSIFICATION) | GRAPHIC | SEE REMARK NO. | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | HAND PENETROMETER (ksf) | PID READING (ppm) | LIQUID LIMIT | PLASTIC LIMIT | DEPTH (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 2" TOPSOIL | | | | | | | | | |
| | | | | | FILL: Brown, lean clay, trace crushed brick and cinders | | 1 | | | | <1 | | | |
| | 1 | CS | 32/60 | | | | | | | | | | | |
| 3 | | | | | | | | | | | <1 | | | 3 |
| | | | | | LEAN CLAY (CL): Brown, moist | | | | | | <1 | | | |
| 6 | | | | | | | | | | | <1 | | | 6 |
| | 2 | CS | 39/60 | | | | | | | | <1 | | | |
| 9 | | | | | | | | | | | <1 | | | 9 |
| | | | | | | | | | | | <1 | | | |
| 12 | 3 | CS | 34/60 | | | | | | | | <1 | | | 12 |
| | | | | | | | | | | | <1 | | | |
| 15 | | | | | | | | | | | <1 | | | 15 |
| | | | | | | | 2 | | | | <1 | | | |
| | 4 | CS | 58/60 | | | | | | | | | | | |
| 18 | | | | | | | | | | | <1 | | | 18 |

Boring terminated at 20 feet.

**WATER LEVEL:**

X **NONE OBSERVED WHILE DRILLING**
____ **ft WHILE DRILLING**
____ **ft** ____ **HRS AFTER DRILLING**
____ **ft** ____ **DAYS AFTER DRILLING**

**REMARKS:**
1) Soil sample submitted for environmental laboratory analysis.
2) Soil sample submitted for environmental laboratory analysis.

# APPENDIX C

## Table 1 – Analytical Test Results of Detected Analytes - Soil

| Boring ID (date) depth / Chemical | | | Metals | | | | | | | | PCB |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Arsenic | Barium | Cadmium | Chromium | Lead | Selenium | Silver | Mercury | Aroclor |
| SCI-1A (12/17/15) 0-3 ft | | | 12.8 | 194 | 0.72 | 21 | **329** | <3.64 | 9.22 | 0.372 | NA[5] |
| SCI-1B (12/17/15) 12-16 ft | | | 4.28 | 157 | 0.25 | 18.1 | 23.1 | <3.77 | <0.47 | 0.06 | NA[5] |
| SCI-2A (12/17/15) 0-3 ft | | | 13.5 | 252 | 0.92 | 25.6 | **189** | <4 | 9.58 | 1.34 | NA[5] |
| SCI-2B (12/17/15) 16-20 ft | | | 11.2 | 187 | 1.08 | 18.6 | **175** | <4 | <0.5 | 0.437 | NA[5] |
| SCI-3A (12/17/15) 0-3 ft | | | 11.6 | 190 | 0.63 | 22.1 | **123** | <3.85 | <0.48 | 0.379 | NA[5] |
| SCI-3B (12/17/15) 12-16 ft | | | **18.8** | 229 | 9.13 | 20.2 | **684** | <4 | <0.5 | 0.994 | NA[5] |
| SCI-4A (12/17/15) 0-3 ft | | | 12 | 194 | **12.7** | 24.3 | **242** | <3.64 | <0.45 | 0.133 | NA[5] |
| SCI-4B (12/17/15) 16-20 ft | | | 4.82 | 103 | <0.14 | 18.6 | 8.53 | <3.85 | <0.48 | 0.027 | NA[5] |
| SCI-4D (12/17/15) 16-20 ft | | | 5.39 | 75.9 | <0.13 | 20.6 | 9.76 | <3.7 | <0.46 | 0.027 | NA[5] |
| SCI-5A (12/17/15) 0-3 ft | | | 7.33 | 198 | 0.61 | 17.9 | **134** | <3.7 | <0.46 | 0.071 | NA[5] |
| SCI-5B (12/17/15) 4-8 ft | | | 7.06 | 129 | 0.19 | 15.1 | 9.56 | <3.85 | <0.48 | 0.031 | NA[5] |
| SCI-6A (12/17/15) 0-3 ft | | | 9.31 | 200 | 0.32 | 18.3 | 34.4 | <3.92 | <0.49 | 0.045 | NA[5] |
| SCI-6B (12/17/15) 16-20 ft | | | 7.79 | 103 | <0.07 | 31.8 | 15 | <3.77 | <0.47 | 0.019 | NA[5] |
| 0.03SCI-7A (12/17/15) 0-3 ft | | | 13.2 | 236 | 1.83 | 24.4 | **875** | <3.7 | <0.46 | 0.405 | NA[5] |
| SCI-7B (12/17/15) 16-20 ft | | | 5.72 | 95.1 | <0.14 | 19.2 | 10.2 | <3.77 | <0.47 | 0.03 | NA[5] |
| SCI-8A (12/17/15) 0-3 ft | | | 7.73 | 202 | 0.73 | 22.2 | **483** | <3.64 | <0.45 | 0.21 | NA[5] |
| SCI-8B (12/17/15) 16-20 ft | | | 7.57 | 104 | <0.13 | 19.1 | 9.7 | <3.92 | <0.49 | 0.025 | NA[5] |
| SCI-9A (12/17/15) 0-3 ft | | | **103** | 195 | <0.13 | 20 | 15.3 | <3.92 | <0.49 | 0.149 | NA[5] |
| SCI-9B (12/17/15) 16-20 ft | | | 9.13 | 140 | 0.21 | 31.1 | 11.8 | <3.92 | <0.49 | 0.024 | NA[5] |
| **Default Target Levels (DTLs)** | | | **14.07[6]** | **2,040** | **9.31** | **74,600** | **103.4[6]** | **6.27** | **16.20** | **2.19** | **1.11** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **3.89** | **15,000** | **16.8** | **74,600** | **260** | **380** | **374** | **46.3** | **1.11** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | --[7] | --[7] | --[7] | --[7] | **260** | --[7] | --[7] | **2.19** | **2,630** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface (0-3 ft)** | **Cumulative[4]** | **15.90** | **181,000** | **74.8** | **472,000** | **660** | **4,780** | **4,480** | **630** | **7.34** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | --[7] | --[7] | --[7] | --[7] | **660** | --[7] | --[7] | **17.6** | **14,800** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **654** | **439,000** | **2,810** | **521,000** | --[7] | **12,800** | **10,600** | **21.6** | **20.4** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents.

## Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)

| Boring ID (date) depth / Chemical | | | Metals | | | | | | | | PCB |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Arsenic | Barium | Cadmium | Chromium | Lead | Selenium | Silver | Mercury | Aroclor |
| SCI-10A (12/18/15) 0-3 ft | | | 7.16 | 164 | 0.27 | 18.3 | 9.32 | <3.85 | <0.48 | 0.023 | <0.0457 |
| SCI-10B (12/18/15) 12-16 ft | | | 12.6 | 138 | 0.43 | 59.6 | 15.5 | <3.85 | <0.48 | 0.048 | <0.0483 |
| SCI-11A (12/18/15) 0-3 ft | | | 6.57 | 145 | 0.3 | 19.1 | 15.5 | <3.77 | <0.47 | 0.062 | <0.0461 |
| SCI-11B (12/18/15) 16-20 ft | | | 8.08 | 103 | 0.38 | 43.4 | 15.5 | <3.85 | <0.48 | 0.034 | <0.0459 |
| SCI-12A (12/18/15) 0-3 ft | | | 9.48 | 253 | 0.47 | 19 | 54.8 | <4 | <0.5 | 0.034 | <0.046 |
| SCI-12B (12/18/15) 12-16 ft | | | 4.75 | 84.2 | 0.18 | 16.7 | 9.56 | <3.64 | <0.45 | 0.023 | <0.0442 |
| SCI-13A (12/18/15) 0-3 ft | | | 8.16 | 179 | 0.25 | 17.4 | 21.6 | <3.77 | <0.47 | 0.038 | NA[5] |
| SCI-13B (12/18/15) 16-20 ft | | | 11.2 | 105 | 0.25 | 29.9 | 13.5 | <3.92 | <0.49 | 0.045 | NA[5] |
| SCI-13D (12/18/18) 16-20 ft | | | 9.94 | 121 | 0.36 | 32.7 | 14.9 | <3.7 | <0.46 | 0.055 | NA[5] |
| SCI-14A (12/18/15) 0-3 ft | | | 9.93 | 159 | 0.39 | 19.5 | 87.2 | <3.7 | <0.46 | 0.127 | NA[5] |
| SCI-14B (12/18/15) 16-20 ft | | | 6.91 | 111 | 0.25 | 19.4 | 8.43 | <3.64 | <0.45 | 0.025 | NA[5] |
| SCI-15A (12/18/15) 0-3 ft | | | 4.78 | 90.1 | 0.61 | 12.9 | **228** | <4 | <0.5 | 0.204 | NA[5] |
| SCI-15B (12/18/15) 12-16 ft | | | **25.3** | 197 | 1.62 | 23.5 | **759** | <3.92 | <0.24 | 2.05 | NA[5] |
| SCI-16A (12/18/15) 0-3 ft | | | 5.69 | 149 | 0.3 | 16.6 | **125** | <3.77 | <0.47 | 0.065 | NA[5] |
| SCI-16B (12/18/15) 16-20 ft | | | 8.28 | 164 | 0.3 | 23.6 | 10.7 | <3.85 | <0.48 | 0.047 | NA[5] |
| SCI-17A (12/18/15) 0-3 ft | | | 2.66 | 27.8 | 0.55 | 10.6 | 64.4 | <3.92 | <0.49 | 0.552 | NA[5] |
| SCI-17B (12/18/15) 16-20 ft | | | 9.21 | 184 | 0.4 | 17.8 | 63.1 | <4 | <0.5 | 0.211 | NA[5] |
| SCI-20A (12/21/15) 0-3 ft | | | 12.5 | 173 | 1.68 | 24.5 | **390** | <3.77 | <0.38 | 0.213 | NA[5] |
| SCI-20B (12/21/15) 12-16 ft | | | 7.71 | 142 | 0.28 | 19.7 | 11.6 | <3.85 | <0.48 | 0.032 | NA[5] |
| **Default Target Levels (DTLs)** | | | **14.07[6]** | **2,040** | **9.31** | **74,600** | **103.4[6]** | **6.27** | **16.20** | **2.19** | **1.11** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **3.89** | **15,000** | **16.8** | **74,600** | **260** | **380** | **374** | **46.3** | **1.11** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **--[7]** | **--[7]** | **--[7]** | **--[7]** | **260** | **--[7]** | **--[7]** | **2.19** | **2,630** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface (0-3 ft)** | **Cumulative[4]** | **15.90** | **181,000** | **74.8** | **472,000** | **660** | **4,780** | **4,480** | **630** | **7.34** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **--[7]** | **--[7]** | **--[7]** | **--[7]** | **--[7]** | **--[7]** | **--[7]** | **17.6** | **14,800** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **654** | **439,000** | **2,810** | **521,000** | **--[7]** | **12,800** | **10,600** | **21.6** | **20.4** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents.

## Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)

| Boring ID (date) depth / Chemical | | | Metals | | | | | | | | PCB |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Arsenic | Barium | Cadmium | Chromium | Lead | Selenium | Silver | Mercury | Aroclor |
| SCI-21A (12/21/15) 0-3 ft | | | 9.57 | 177 | 0.85 | 19.8 | **227** | <4 | <0.27 | 0.279 | NA[5] |
| SCI 21B (12/21/15) 12-16 ft | | | 6.1 | 127 | 0.24 | 21.1 | 9.98 | <3.7 | <0.14 | 0.032 | NA[5] |
| SCI-22A (12/21/15) 0-3 ft | | | 10.4 | 253 | 0.73 | 21.2 | **267** | <4 | <0.23 | 0.56 | NA[5] |
| SCI-22B (12/21/15) 4-8 ft | | | 8 | 129 | 0.66 | 16.8 | 81.1 | <4 | <0.43 | 1.17 | NA[5] |
| SCI-23A (12/21/15) 0-3 ft | | | 12.9 | 290 | 1.35 | 23.3 | **341** | <4 | <0.39 | 0.405 | NA[5] |
| SCI-23B (12/21/15) 8-12 ft | | | 5.56 | 220 | <0.16 | 11.9 | 15.4 | <3.92 | <0.49 | 0.053 | NA[5] |
| SCI-24A (12/21/15) 0-3 ft | | | 9.78 | 260 | 1.04 | 20.8 | **427** | <4 | <0.36 | 0.438 | NA[5] |
| SCI-24B(12/21/15) 4-8 ft | | | 7.32 | 159 | 0.21 | 18.3 | 10.4 | <3.85 | <0.19 | 0.037 | NA[5] |
| SCI-25A (12/21/15) 0-3 ft | | | 6.38 | 143 | 0.73 | 13.1 | **404** | <3.77 | <0.24 | 0.125 | NA[5] |
| SCI-25B (12/21/15) 16-20 ft | | | 9.5 | 183 | 0.28 | 21.1 | 42 | <3.64 | <0.19 | 0.486 | NA[5] |
| SCI-26A (12/21/15) 0-3 ft | | | 11.2 | 198 | <0.19 | 19.2 | 14 | <4 | <0.16 | 0.016 | NA[5] |
| SCI-26B (12/21/15) 4-8 ft | | | 6.99 | 132 | 0.28 | 22.6 | 9.95 | <3.92 | <0.49 | <0.009 | NA[5] |
| SCI-27A (12/21/15) 0-3 ft | | | 4.66 | 67.1 | 0.44 | 9.45 | **126** | <3.64 | <0.15 | 0.205 | NA[5] |
| SCI-27B (12/21/15) 16-20 ft | | | 10.6 | 95.3 | 0.29 | 51.3 | 16.7 | <3.77 | <0.47 | 0.047 | NA[5] |
| SCI-27D (12/21/15) 16-20 ft | | | 6.32 | 89.1 | 0.26 | 22.2 | 12.4 | <3.92 | <0.49 | 0.041 | NA[5] |
| SCI-28A (12/21/15) 0-3 ft | | | 10.7 | 163 | 0.53 | 22 | **107** | <3.7 | <0.23 | 0.104 | NA[5] |
| SCI-28B (12/21/15) 16-20 ft | | | 8.46 | 200 | 0.29 | 23.7 | 10.2 | <3.77 | <0.19 | 0.026 | NA[5] |
| SCI-29A (12/21/15) 0-3 ft | | | 10.1 | 272 | 1.75 | 21.3 | **250** | <3.77 | <0.37 | 0.146 | NA[5] |
| SCI-29B (12/21/15) 4-8 ft | | | 12.1 | 309 | 3.7 | 23.7 | **787** | <3.85 | <0.48 | 0.508 | NA[5] |
| SCI-30A (12/22/15) 0-3 ft | | | 9.12 | 155 | 0.75 | 18.6 | **140** | <3.7 | <0.46 | 0.194 | NA[5] |
| **Default Target Levels (DTLs)** | | | **14.07[6]** | **2,040** | **9.31** | **74,600** | **103.4[6]** | **6.27** | **16.20** | **2.19** | **1.11** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **3.89** | **15,000** | **16.8** | **74,600** | **260** | **380** | **374** | **46.3** | **1.11** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **--[7]** | **--[7]** | **--[7]** | **--[7]** | **260** | **--[7]** | **--[7]** | **2.19** | **2,630** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface (0-3 ft)** | **Cumulative[4]** | **15.90** | **181,000** | **74.8** | **472,000** | **660** | **4,780** | **4,480** | **630** | **7.34** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **--[7]** | **--[7]** | **--[7]** | **--[7]** | **660** | **--[7]** | **--[7]** | **17.6** | **14,800** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **654** | **439,000** | **2810** | **521,000** | **--[7]** | **12,800** | **10,600** | **21.6** | **20.4** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents.

## Table 1 Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)

| Boring ID (date) depth / Chemical | | | Metals | | | | | | | | PCB |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Arsenic | Barium | Cadmium | Chromium | Lead | Selenium | Silver | Mercury | Aroclor |
| SCI-30B (12/22/15) 16-20 ft | | | 5.95 | 164 | 0.24 | 19.8 | 8.46 | <3.77 | <0.47 | 0.027 | NA[5] |
| SCI-30D (12/22/15) 16-20 ft | | | 6.46 | 182 | <0.12 | 20.6 | 8.91 | <3.64 | <0.45 | 0.013 | NA[5] |
| SCI-31A (12/22/15) 0-3 ft | | | 8.97 | 188 | 0.72 | 19.6 | **140** | <4 | <0.5 | 0.096 | NA[5] |
| SCI-31B (12/22/15) 16-20 ft | | | 6.39 | 185 | <0.11 | 13 | 12.5 | <4 | <0.5 | <0.01 | NA[5] |
| SCI-32A (12/22/15) 0-3 ft | | | 13.4 | 205 | 0.2 | 23.8 | 17.3 | <4 | <0.5 | 0.051 | NA[5] |
| SCI-32B (12/22/15) 16-20 ft | | | 4.7 | 97.6 | <0.1 | 19.6 | 8.28 | <4 | <0.5 | 0.03 | NA[5] |
| SCI-33A (12/22/15) 0-3 ft | | | 7.44 | 178 | 1.08 | 13.7 | **324** | <4 | <0.5 | 0.084 | NA[5] |
| SCI-33B (12/22/15) 16-20 ft | | | 4.92 | 113 | <0.09 | 19.1 | 8.81 | <3.77 | <0.47 | 0.027 | NA[5] |
| SCI-34A (12/22/15)0-3 ft | | | 11.3 | 158 | 2.55 | 15.6 | **667** | <4 | <0.5 | 0.222 | NA[5] |
| SCI-34B (12/22/15) 16-20 ft | | | 5.55 | 109 | <0.09 | 19.2 | 8.6 | <3.77 | <0.47 | 0.025 | NA[5] |
| SCI-34D (12/22/15) 16-20 ft | | | 5.83 | 99.3 | <0.16 | 19.7 | 9.06 | <3.85 | <0.48 | 0.033 | NA[5] |
| SCI-35A (12/22/15) 0-3 ft | | | 7.39 | 156 | 0.19 | 18.6 | 19.7 | <3.85 | <0.48 | 0.136 | NA[5] |
| SCI-35B (12/22/15) 16-20 ft | | | 8.45 | 83 | <0.08 | 33.6 | 16.1 | <3.77 | <0.47 | 0.028 | NA[5] |
| SCI-36A (12/22/15)0-3 ft | | | 9 | 215 | 0.32 | 25.8 | 49.6 | <4 | <0.5 | 0.11 | NA[5] |
| SCI-36B (12/22/15) 16-20 ft | | | 4.88 | 70.2 | <0.11 | 16.8 | 10.8 | <3.85 | <0.48 | 0.033 | NA[5] |
| SCI-37A (12/22/15) 0-3 ft | | | 13.9 | 284 | 2.28 | 24.7 | **682** | <3.85 | <0.48 | 0.385 | NA[5] |
| SCI-37B (12/22/15) 16-20 ft | | | 9.36 | 91.5 | <0.16 | 36.3 | 15.3 | <3.77 | <0.47 | 0.065 | NA[5] |
| SCI-38A (12/22/15) 0-3 ft | | | 13 | 172 | <0.07 | 24.8 | 17.7 | <4 | <0.5 | 0.021 | NA[5] |
| SCI-38B (12/22/15) 16-20 ft | | | 5.24 | 94.8 | <0.1 | 25.8 | 9.8 | <4 | <0.5 | 0.024 | NA[5] |
| **Default Target Levels (DTLs)** | | | **14.07[6]** | **2,040** | **9.31** | **74,600** | **103.4[6]** | **6.27** | **16.20** | **2.19** | **1.11** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **3.89** | **15,000** | **16.8** | **74,600** | **260** | **380** | **374** | **46.3** | **1.11** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **--[7]** | **--[7]** | **--[7]** | **--[7]** | **260** | **--[7]** | **--[7]** | **2.19** | **2,630** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface (0-3 ft)** | **Cumulative[4]** | **15.90** | **181,000** | **74.8** | **472,000** | **660** | **4,780** | **4,480** | **630** | **7.34** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **--[7]** | **--[7]** | **--[7]** | **--[7]** | **660** | **--[7]** | **--[7]** | **17.6** | **14,800** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **654** | **439,000** | **2,810** | **521,000** | **--[7]** | **12,800** | **10,600** | **21.6** | **20.4** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents.

## Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)

| Boring ID (date) depth / Chemical | | | Metals | | | | | | | | PCB |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Arsenic | Barium | Cadmium | Chromium | Lead | Selenium | Silver | Mercury | Aroclor |
| SCI-39A (12/22/15) 0-3 ft | | | 10.2 | 185 | 0.29 | 19.7 | **108** | <3.85 | <0.48 | 0.259 | NA[5] |
| SCI-39B (12/22/15) 16-20 ft | | | 6.7 | 73.1 | <0.12 | 23.9 | 9.79 | <3.77 | <0.47 | 0.023 | NA[5] |
| SCI-40A (1/11/16) | | | 6.5 | 246 | <0.14 | 13.6 | 16.3 | <3.64 | <0.45 | 0.015 | <0.047 |
| SCI-40B (1/11/16) | | | 6.78 | 132 | 0.3 | 22 | 8.69 | <3.77 | <0.47 | 0.024 | <0.0472 |
| SCI-40D (1/11/16) | | | 6.48 | 185 | 0.28 | 19.8 | 8.81 | <3.7 | <0.46 | 0.029 | <0.0473 |
| SCI-41A (1/11/16) | | | 13.1 | 233 | 9.48 | 31.5 | **784** | 4.3 | <0.47 | 0.307 | 0.0674 |
| SCI-41B (1/11/16) | | | 5.83 | 103 | 0.21 | 22.2 | 10.2 | <4 | <0.5 | 0.027 | <0.0477 |
| SCI-42A (1/11/16) | | | 10.5 | 156 | <0.16 | 20 | 14.7 | <3.6 | <0.48 | 0.017 | <0.0459 |
| SCI-42B (1/11/16) | | | 5.7 | 110 | 0.2 | 22.1 | 9.5 | <3.85 | <0.48 | 0.03 | <0.0472 |
| SCI-43A (1/11/16) | | | 12.1 | 298 | 1.11 | 21.2 | **973** | <2.5 | <0.46 | 0.958 | NA[5] |
| SCI-43B (1/11/16) | | | 7.2 | 148 | 0.29 | 18.5 | 28.3 | <4 | <0.5 | 0.128 | NA[5] |
| SCI-44A (1/11/16) | | | 11.9 | 208 | 0.29 | 21.5 | 70 | <2 | <0.45 | 0.319 | NA[5] |
| SCI-44B (1/11/16) | | | 6.21 | 122 | 0.25 | 19.3 | 8.86 | <2.3 | <0.5 | 0.031 | NA[5] |
| SCI-45A (1/11/16) | | | 11.5 | 230 | 1.61 | 27.9 | **925** | <4 | <0.19 | 0.73 | NA[5] |
| SCI-45B (1/11/16) | | | 6.57 | 111 | 0.25 | 18.8 | 11.8 | <3.7 | <0.46 | 0.04 | NA[5] |
| SCI-46A (1/11/16) | | | 12.4 | 304 | 1.02 | 18.9 | **206** | <2.6 | <0.46 | 0.106 | NA[5] |
| SCI-46B (1/11/16) | | | 5.04 | 87.8 | <0.16 | 20.1 | 10.6 | <3.85 | <0.48 | 0.026 | NA[5] |
| SCI-47A (1/12/16) 0-3 ft | | | 10.1 | 183 | 0.2 | 16.9 | 17.2 | <3.7 | <0.46 | 0.019 | NA[5] |
| **Default Target Levels (DTLs)** | | | **14.07[6]** | **2,040** | **9.31** | **74,600** | **103.4[6]** | **6.27** | **16.20** | **2.19** | **1.11** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **3.89** | **15,000** | **16.8** | **74,600** | **260** | **380** | **374** | **46.3** | **1.11** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **--[7]** | **--[7]** | **--[7]** | **--[7]** | **260** | **--[7]** | **--[7]** | **2.19** | **2,630** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface (0-3 ft)** | **Cumulative[4]** | **15.90** | **181,000** | **74.8** | **472,000** | **660** | **4,780** | **4,480** | **630** | **7.34** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **--[7]** | **--[7]** | **--[7]** | **--[7]** | **660** | **--[7]** | **--[7]** | **17.6** | **14,800** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **654** | **439,000** | **2,810** | **521,000** | **--[7]** | **12,800** | **10,600** | **21.6** | **20.4** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents..

## Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)

| Boring ID (date) depth / Chemical | | | Metals | | | | | | | | PCB |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Arsenic | Barium | Cadmium | Chromium | Lead | Selenium | Silver | Mercury | Aroclor |
| SCI-47B (1/12/16) 15-20 ft | | | 5.68 | 84.1 | 0.24 | 22.1 | 13.8 | <3.77 | <0.47 | 0.032 | <0.0374 |
| SCI-47D (1/12/16) 15-20 ft | | | 5.78 | 89.7 | 0.2 | 20.3 | 13.1 | <3.92 | <0.49 | 0.029 | <0.0375 |
| SCI-48A (1/12/16) 0-3 ft | | | 10.6 | 185 | <0.16 | 19.6 | 14 | <3.85 | <0.48 | 0.038 | NA[5] |
| SCI-48B (1/12/16) 15-20 ft | | | 5.73 | 100 | <0.16 | 19 | 9.02 | <3.85 | <0.48 | 0.031 | <0.0375 |
| SCI-49A (1/12/16) 0-3 ft | | | 13.1 | 201 | 0.2 | 26.6 | 16.9 | <3.85 | <0.48 | 0.03 | NA[5] |
| SCI-49B (1/12/16) 15-20 ft | | | 9.74 | 128 | 0.48 | 40 | 16.8 | <4 | <0.5 | 0.054 | NA[5] |
| SCI-50A (1/12/16) 0-3 ft | | | 10.9 | 180 | <0.11 | 21.1 | 15.4 | <4 | <0.5 | 0.023 | NA[5] |
| SCI-50B (1/12/16) 15-20 ft | | | 6.04 | 136 | <0.18 | 19.8 | 9.22 | <3.7 | <0.46 | 0.032 | NA[5] |
| SCI-51A (1/12/16) 0-3 ft | | | 9.3 | 132 | 0.21 | 19.3 | 37.7 | <3.77 | <0.47 | 0.137 | NA[5] |
| SCI-51B (1/12/16) 15-20 ft | | | 4.9 | 71.8 | <0.16 | 17.4 | 9.92 | <3.7 | <0.46 | 0.029 | NA[5] |
| SCI-52A (1/12/16) 0-3 ft | | | 6.15 | 137 | 0.38 | 15.4 | 51.4 | <4 | <0.5 | 0.064 | NA[5] |
| SCI-52B (1/12/16) 10-15 ft | | | 4.89 | 96.4 | 0.19 | 20.1 | 9.14 | <3.85 | <0.48 | 0.028 | NA[5] |
| SCI-53A (1/12/16) 0-3 ft | | | 7.7 | 192 | 0.2 | 18.3 | 10.7 | <4 | <0.5 | 0.031 | NA[5] |
| SCI-53B (1/12/16) 15-20 ft | | | 9.63 | 83.2 | 0.23 | 60.3 | 13.1 | <4 | <0.5 | 0.051 | NA[5] |
| SCI-54A (1/12/16) 0-3 ft | | | 7.68 | 171 | 0.62 | 17.7 | **108** | <3.92 | <0.49 | 0.088 | NA[5] |
| SCI-54B (1/12/16) 15-20 ft | | | 5.75 | 111 | 0.29 | 23.4 | 12.7 | <3.77 | <0.47 | 0.031 | NA[5] |
| SCI-54D (1/12/16) 15-20 ft | | | 5.8 | 112 | 0.34 | 24.9 | 11.5 | <3.64 | <0.45 | 0.035 | NA[5] |
| **Default Target Levels (DTLs)** | | | **14.07[6]** | **2,040** | **9.31** | **74,600** | **103.4[6]** | **6.27** | **16.20** | **2.19** | **1.11** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **3.89** | **15,000** | **16.8** | **74,600** | **260** | **380** | **374** | **46.3** | **1.11** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **--[7]** | **--[7]** | **--[7]** | **--[7]** | **260** | **--[7]** | **--[7]** | **2.19** | **2,630** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface (0-3 ft)** | **Cumulative[4]** | **15.90** | **181,000** | **74.8** | **472,000** | **660** | **4,780** | **4,480** | **630** | **7.34** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **--[7]** | **--[7]** | **--[7]** | **--[7]** | **660** | **--[7]** | **--[7]** | **17.6** | **14,800** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **654** | **439,000** | **2,810** | **521,000** | **--[7]** | **12,800** | **10,600** | **21.6** | **20.4** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents.

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## Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)

| Boring ID (date) depth / Chemical | | | Metals | | | | | | | | PCB |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Arsenic | Barium | Cadmium | Chromium | Lead | Selenium | Silver | Mercury | Aroclor |
| SCI-55A (1/12/16) 0-3 ft | | | 7.08 | 122 | <0.08 | 13.4 | 13.6 | <3.92 | <0.49 | 0.211 | NA[5] |
| SCI-55B (1/12/16) 15-20 ft | | | 8.06 | 173 | 0.26 | 18.9 | 12.3 | <3.85 | <0.48 | 0.036 | NA[5] |
| SCI-57A (1/12/16) 0-3 ft | | | 9.2 | 189 | 0.62 | 21.4 | **195** | <3.77 | <0.47 | 0.425 | NA[5] |
| SCI-57B (1/12/16) 15-20 ft | | | 5.17 | 87.5 | <0.16 | 17 | 9.84 | <3.85 | <0.48 | 0.028 | NA[5] |
| SCI-58A (1/12/16) 0-3 ft | | | 13.9 | 96.4 | 2.05 | 17.1 | **388** | <3.64 | <0.45 | 0.159 | NA[5] |
| SCI-58B (1/12/16) 10-15 ft | | | 5.25 | 116 | <0.17 | 22.1 | 9.86 | <3.77 | <0.47 | 0.028 | NA[5] |
| SCI-59A (1/12/16) 0-3 ft | | | 9.15 | 220 | 0.53 | 22.6 | **196** | <3.92 | <0.49 | 0.211 | NA[5] |
| SCI-59B (1/12/16) 15-20 ft | | | 8.58 | 88.2 | 0.41 | 63.7 | 15.1 | <3.77 | <0.47 | 0.045 | NA[5] |
| SCI-61A (1/13/16) 0-3 ft | | | 9.5 | 134 | 0.92 | 17.5 | **156** | <3.64 | <0.45 | 0.192 | NA[5] |
| SCI-61B (1/13/16) 15-20 ft | | | 7.97 | 54.5 | <0.12 | 42.9 | 11.2 | <3.64 | <0.45 | 0.032 | NA[5] |
| SCI-63A (1/13/16) 0-3 ft | | | **17.9** | 333 | 1.49 | 27.6 | **679** | <4 | <0.5 | 0.748 | NA[5] |
| SCI-63B (1/13/16) 15-20 ft | | | 7.93 | 67.8 | <0.07 | 39.4 | 13.8 | <3.92 | <0.49 | 0.026 | NA[5] |
| SCI-64A (1/13/16) 0-3 ft | | | 8.46 | 185 | 0.92 | 19.7 | **230** | <3.7 | <0.46 | 0.138 | NA[5] |
| SCI-64B (1/13/16) 15-20 ft | | | 6.38 | 67.6 | <0.08 | 23.5 | 10.6 | <3.77 | <0.47 | 0.026 | NA[5] |
| SCI-65A (1/13/16) 0-3 ft | | | 8.32 | 159 | 0.64 | 19.6 | 88.5 | <3.85 | <0.48 | 0.122 | NA[5] |
| SCI-65B (1/13/16) 15-20 ft | | | **27.9** | 136 | 0.48 | 87.3 | 24.6 | <4 | <0.5 | 0.113 | NA[5] |
| SCI-66A (1/13/16) 0-3 ft | | | 8.15 | 169 | 0.38 | 17.4 | **238** | <3.92 | <0.49 | 0.298 | NA[5] |
| SCI-66B (1/13/16) 10-15 ft | | | 6.58 | 133 | 0.29 | 21.4 | 44.4 | <3.92 | <0.49 | 0.051 | NA[5] |
| **Default Target Levels (DTLs)** | | | **14.07[6]** | **2,040** | **9.31** | **74,600** | **103.4[6]** | **6.27** | **16.20** | **2.19** | **1.11** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **3.89** | **15,000** | **16.8** | **74,600** | **260** | **380** | **374** | **46.3** | **1.11** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **--[7]** | **--[7]** | **--[7]** | **--[7]** | **260** | **--[7]** | **--[7]** | **2.19** | **2630** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface (0-3 ft)** | **Cumulative[4]** | **15.90** | **181,000** | **74.8** | **472,000** | **660** | **4780** | **4480** | **630** | **7.34** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **--[7]** | **--[7]** | **--[7]** | **--[7]** | **660** | **--[7]** | **--[7]** | **17.6** | **14800** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **654** | **439,000** | **2810** | **521,000** | **--[7]** | **12800** | **10600** | **21.6** | **20.4** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents..

## Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)

| Boring ID (date) depth / Chemical | | | Metals | | | | | | | | PCB |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Arsenic | Barium | Cadmium | Chromium | Lead | Selenium | Silver | Mercury | Aroclor |
| SCI-67A (1/13/16) 0-3 ft | | | 9.23 | 312 | 0.73 | 17.8 | **841** | <3.77 | <0.47 | 0.677 | NA[5] |
| SCI-67B (1/13/16) 15-20 ft | | | 4.68 | 89.3 | <0.16 | 17.1 | 8.78 | <3.85 | <0.48 | 0.021 | NA[5] |
| SCI-67D (1/13/16) 15-20 ft | | | 5.27 | 84.2 | <0.17 | 17.7 | 8.49 | <3.77 | <0.47 | 0.031 | NA[5] |
| SCI-68A (1/13/16) 0-3 ft | | | 11.1 | 210 | <0.17 | 20.2 | 13.3 | <3.92 | <0.49 | 0.031 | NA[5] |
| SCI-68B (1/13/16) 15-20 ft | | | 6.11 | 123 | 0.2 | 18.9 | 8.75 | <3.7 | <0.46 | 0.025 | NA[5] |
| SCI-69A (1/13/16) 0-3 ft | | | 8.91 | 132 | 0.42 | 27.8 | 34 | <3.7 | <0.46 | 0.355 | NA[5] |
| SCI-69B (1/13/16) 15-20 ft | | | 7.41 | 85.2 | 0.2 | 33.2 | 17.6 | <3.7 | <0.46 | 0.038 | NA[5] |
| SCI-70A (1/13/16) 0-3 ft | | | 8.46 | 166 | 0.59 | 19 | **117** | <4 | <0.5 | 0.555 | NA[5] |
| SCI-70B (1/13/16) 15-20 ft | | | 4.63 | 97.5 | <0.16 | 19.8 | 9.1 | <3.85 | <0.48 | 0.023 | NA[5] |
| SCI-70D (1/13/16) 15-20 ft | | | 4.69 | 99 | <0.17 | 18.7 | 8.93 | <3.92 | <0.49 | 0.024 | NA[5] |
| SCI-71A (1/13/16) 0-3 ft | | | 9.07 | 190 | 0.66 | 17.9 | **187** | <4 | <0.5 | 0.253 | NA[5] |
| SCI-71B (1/13/16) 15-20 ft | | | 6.31 | 146 | <0.19 | 18.5 | 8.89 | <4 | <0.5 | 0.024 | NA[5] |
| SCI-75A (1/13/16) 0-3 ft | | | 9.5 | 197 | 0.59 | 17.2 | **121** | <4 | <0.5 | 0.301 | NA[5] |
| SCI-75B (1/13/16) 15-20 ft | | | 4.65 | 75.5 | <0.11 | 19.8 | 9.98 | <3.77 | <0.47 | 0.025 | NA[5] |
| SCI-77A (1/13/16) 0-3 ft | | | 13.6 | 179 | 0.39 | 22 | 100 | <3.85 | <0.48 | 0.112 | NA[5] |
| SCI-77B (1/13/16) 15-20 ft | | | 4.78 | 91.6 | <0.15 | 18.1 | 8.88 | <3.85 | <0.48 | 0.025 | NA[5] |
| **Default Target Levels (DTLs)** | | | **14.07[6]** | **2040** | **9.31** | **74,600** | **103.4[6]** | **6.27** | **16.20** | **2.19** | **1.11** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **3.89** | **15000** | **16.8** | **74,600** | **260** | **380** | **374** | **46.3** | **1.11** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **--[7]** | **--[7]** | **--[7]** | **--[7]** | **260** | **--[7]** | **--[7]** | **2.19** | **2630** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface (0-3 ft)** | **Cumulative[4]** | **15.90** | **181000** | **74.8** | **472,000** | **660** | **4780** | **4480** | **630** | **7.34** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **--[7]** | **--[7]** | **--[7]** | **--[7]** | **660** | **--[7]** | **--[7]** | **17.6** | **14800** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **654** | **439000** | **2810** | **521,000** | **--[7]** | **12800** | **10600** | **21.6** | **20.4** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents.

**Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)**

| Sample ID (date) / Chemical | | | SVOCs | | | | | | | | | | | | | VOCs | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acenaphthene | Anthracene | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(k)fluoranthene | Chrysene | Dibenzo(a,h)anthracene | Fluoranthene | Fluorene | Pyrene | TPH-DRO (C10 - C21) | TPH-ORO (C21 - C35) | 1,2,3-Trimethylbenzene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene |
| SCI-1A (12/17/15) 0-3 ft | | | 0.0419 | 0.122 | 0.582 | 0.548 | 0.72 | 0.3 | 0.574 | 0.0612 | 1.17 | <0.029 | 1.06 | <13 | 59.5 | <0.0056 | <0.0056 | <0.0056 |
| SCI-1B (12/17/15) 12-16 ft | | | <0.0453 | <0.0453 | <0.036 | <0.033 | <0.044 | <0.0453 | <0.028 | <0.0453 | 0.0547 | <0.0453 | 0.08 | <11 | <16 | <0.0052 | <0.0052 | <0.0052 |
| SCI-2A (12/17/15) 0-3 ft | | | <0.39 | 1.67 | **7.86** | **7.63** | **11.1** | 3.75 | 7.79 | **0.7** | 14.8 | <0.36 | 14.5 | <130 | 251 | <0.0058 | <0.0058 | <0.0058 |
| SCI-2B (12/17/15) 16-20 ft | | | 0.234 | 0.263 | 0.587 | 0.529 | 0.708 | 0.183 | 0.527 | 0.0514 | 1.19 | 0.163 | 1.17 | 41 | 44.2 | <0.0043 | <0.0043 | <0.0043 |
| SCI-3A (12/17/15) 0-3 ft | | | 0.122 | 0.392 | 1.8 | **1.71** | 2.53 | 0.735 | 1.69 | 0.146 | 3.32 | 0.109 | 3.11 | 19.2 | 52.1 | <0.0046 | <0.0046 | <0.0046 |
| SCI-3B (12/17/15) 12-16 ft | | | <0.0486 | <0.04 | 0.46 | 0.527 | 0.706 | 0.304 | 0.419 | <0.048 | 0.592 | <0.0486 | 0.586 | 21 | 42.8 | <0.0066 | <0.0066 | <0.0066 |
| SCI-4A (12/17/15) 0-3 ft | | | <0.14 | 0.444 | 1.41 | **1.2** | 1.76 | 0.601 | 1.28 | <0.232 | 3.02 | <0.13 | 2.54 | <43 | <59 | <0.0046 | 0.0184 | 0.0058 |
| SCI-4B (12/17/15) 16-20 ft | | | <0.0419 | <0.0419 | <0.0419 | <0.0419 | <0.0419 | <0.0419 | <0.0419 | <0.0419 | <0.0419 | <0.0419 | <0.0419 | <14.8 | <14.8 | <0.0042 | <0.0042 | <0.0042 |
| SCI-4D (12/17/15) 16-20 ft | | | <0.0407 | <0.0407 | <0.0407 | <0.0407 | <0.0407 | <0.0407 | <0.0407 | <0.0407 | <0.0407 | <0.0407 | <0.0407 | <14.4 | <14.4 | <0.0046 | <0.0046 | <0.0046 |
| SCI-5A (12/17/15) 0-3 ft | | | 0.463 | 1.12 | 3.43 | **3.12** | 4.19 | 1.43 | 3.18 | <0.36 | 7.26 | 0.436 | 6.55 | 0.368 | 2,090 | <0.0045 | <0.0045 | <0.0045 |
| SCI-5B (12/17/15) 4-8 ft | | | <4.01 | <4.01 | <4.01 | <4.01 | <4.01 | <4.01 | <4.01 | <4.01 | <4.01 | <4.01 | <2 | **10,700** | 38.3 | 0.274 | 0.424 | <0.098 |
| SCI-6A (12/17/15) 0-3 ft | | | <0.0417 | <0.0417 | 0.0755 | 0.0568 | 0.0809 | <0.027 | 0.0584 | <0.0417 | 0.133 | <0.0417 | 0.109 | <8.7 | <11 | <0.0045 | <0.0045 | <0.0045 |
| SCI-6B (12/17/15) 16-20 ft | | | <0.041 | <0.041 | <0.041 | <0.041 | <0.041 | <0.041 | <0.041 | <0.041 | <0.041 | <0.041 | <0.041 | <7.4 | <14.5 | <0.0041 | <0.0041 | <0.0041 |
| SCI-7A (12/17/15) 0-3 ft | | | 6.25 | 14 | **36.5** | **29.7** | **36.2** | 14.6 | 30.7 | 3.49 | 79.1 | 5.61 | 69.8 | <640 | <870 | <0.0049 | <0.0049 | <0.0049 |
| SCI-7B (12/17/15) 16-20 ft | | | <0.0415 | <0.0415 | <0.0415 | <0.0415 | <0.0415 | <0.0415 | <0.0415 | <0.0415 | <0.0415 | <0.0415 | <0.0415 | <14.6 | <14.6 | <0.0044 | <0.0044 | <0.0044 |
| SCI-8A (12/17/15) 0-3 ft | | | 1.36 | 4.63 | **16.6** | **14.4** | **18.1** | 5.83 | 14.4 | 1.66 | 37.2 | 1.12 | 33.5 | <210 | 393 | <0.0045 | <0.0045 | <0.0045 |
| SCI-8B (12/17/15) 16-20 ft | | | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <7.8 | <15 | <0.0046 | <0.0046 | <0.0046 |
| SCI-9A (12/17/15) 0-3 ft | | | <0.023 | <0.038 | 0.175 | 0.141 | 0.207 | 0.0686 | 0.166 | <0.0416 | 0.346 | <0.0416 | 0.289 | <11 | <9.5 | <0.0048 | <0.0048 | <0.0048 |
| SCI-9B (12/17/15) 16-20 ft | | | <0.0444 | <0.0444 | <0.0444 | <0.0444 | <0.0444 | <0.0444 | <0.0444 | <0.0444 | <0.0444 | <0.0444 | <0.0444 | <15.7 | <15.7 | <0.0047 | <0.0047 | <0.0047 |
| SCI-10A (12/18/15) 0-3 ft | | | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <9.6 | <14.7 | <0.0045 | <0.0045 | <0.0045 |
| SCI-10B (12/1/15) 12-16 ft | | | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <9.5 | <15.4 | <0.0047 | <0.0047 | <0.0047 |
| SCI-11A (12/18/15) 0-3 ft | | | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <9.4 | <14.8 | <0.0046 | <0.0046 | <0.0046 |
| SCI-11B (12/18/15) 16-20 ft | | | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <8.6 | <14.7 | <0.0046 | <0.0046 | <0.0046 |
| SCI-12A (12/18/15) 0-3 ft | | | <0.0418 | <0.0418 | <0.03 | <0.025 | <0.036 | <0.0418 | <0.029 | <0.0418 | 0.0619 | <0.0418 | 0.0525 | <8.9 | <14.8 | <0.0045 | <0.0045 | <0.0045 |
| **Default Target Levels (DTLs)** | | | **174** | **3,060** | **6.12** | **0.62** | **6.19** | **62.00** | **599** | **0.62** | **2,280** | **211** | **1,500** | **4,150** | **124,000** | **--[7]** | **3.93** | **0.882** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **3,130** | **15,700** | **6.20** | **0.62** | **6.19** | **62** | **599** | **0.62** | **2,280** | **2,200** | **1,710** | **140,000** | **124,000** | **--[7]** | **749** | **749** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **66,900** | **390,000** | **260,000** | **225,000** | **55,500** | **6,830,000** | **192,000** | **22,200,000** | **9,010,000** | **246,000** | **107,000,00** | **4,150** | **--[7]** | **--[7]** | **14.3** | **2.25** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface (0-3 ft)** | **Cumulative[4]** | **30,700** | **154,000** | **21.10** | **2.11** | **21** | **211** | **1,990** | **2.11** | **21,800** | **20,700** | **16,400** | **1,410,000** | **1,250,000** | **--[7]** | **10,100** | **10,100** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **538,000** | **3,140,000** | **1,360,000** | **1,180,000** | **291,000** | **35,800,000** | **1,010,000** | **116,000,000** | **72,500,000** | **1,980,000** | **864,00,000** | **334,000** | **--[7]** | **--[7]** | **115** | **18.1** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **25,700** | **135,000** | **1,190** | **119** | **1,140** | **11,900** | **65,700** | **119** | **43,800** | **27,500** | **33,700** | **3,010,000** | **2,890,000** | **--[7]** | **431** | **431** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents.

## Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)

| Sample ID (date) / Chemical | | | SVOCs | | | | | | | | | | | | | VOCs | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acenaphthene | Anthracene | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(k)fluoranthene | Chrysene | Dibenzo(a,h)anthracene | Fluoranthene | Fluorene | Pyrene | TPH-DRO (C10 - C21) | TPH-ORO (C21 - C35) | 1,2,3-Trimethylbenzene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene |
| SCI-12B (12/18/15) 12-16 ft | | | <0.0404 | <0.0404 | <0.0404 | <0.0404 | <0.0404 | <0.0404 | <0.0404 | <0.0404 | <0.0404 | <0.0404 | <0.0404 | <8.4 | <14.3 | <0.0042 | <0.0042 | <0.0042 |
| SCI-13A (12/18/15) 0-3 ft | | | <0.041 | <0.041 | <0.025 | <0.041 | <0.024 | <0.041 | <0.041 | <0.041 | 0.042 | <0.041 | <0.039 | <9.3 | <14.5 | <0.0047 | <0.0047 | <0.0047 |
| SCI-13B (12/18/15) 16-20 ft | | | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <8.6 | <14.7 | <0.0046 | <0.0046 | <0.0046 |
| SCI-13D (12/18/18) 16-20 ft | | | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <8.2 | <15.1 | <0.0048 | <0.0048 | <0.0048 |
| SCI-14A (12/18/15) 0-3 ft | | | 0.048 | 0.103 | 0.354 | 0.297 | 0.439 | 0.157 | 0.299 | <0.023 | 0.736 | <0.038 | 0.646 | <11 | 16.8 | <0.0053 | <0.0053 | <0.0053 |
| SCI-14B (12/18/15) 16-20 ft | | | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <9.4 | <15.2 | <0.0046 | <0.0046 | <0.0046 |
| SCI-15A (12/18/15) 0-3 ft | | | <1.02 | <1.02 | 1.1 | **1.06** | 1.56 | <1.02 | <0.93 | <1.02 | 2.16 | <1.02 | 1.88 | <359 | <359 | <0.0046 | <0.0046 | <0.0046 |
| SCI-15B (12/18/15) 12-16 ft | | | 0.126 | 0.261 | 0.593 | 0.522 | 0.671 | 0.286 | 0.492 | <0.0523 | 1.03 | 0.118 | 0.96 | 40.6 | 77.6 | <0.062 | <0.120 | <0.212 |
| SCI-16A (12/18/15) 0-3 ft | | | 5.03 | 11.7 | **26.4** | **20.7** | **29.2** | 9.54 | 21.7 | **<1.7** | 60.9 | 3.57 | 53.4 | <610 | <640 | <0.005 | <0.005 | <0.005 |
| SCI-16B (12/18/15) 0-3 ft | | | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <8.9 | <15 | <0.0045 | <0.0045 | <0.0045 |
| SCI-17A (12/18/15) 0-3 ft | | | <0.3 | 0.845 | 4.71 | **4.93** | **7.38** | 2.22 | 4.36 | <0.574 | 9.3 | <0.574 | 9.16 | <110 | <110 | <0.0042 | <0.0042 | <0.0042 |
| SCI-17B (12/18/15) 16-20 ft | | | <0.023 | <0.031 | 0.066 | 0.049 | 0.066 | <0.044 | 0.052 | <0.044 | 0.13 | <0.044 | 0.115 | 24.6 | 19.7 | <0.0047 | <0.0047 | <0.0047 |
| SCI-20A (12/21/15) 0-3 ft | | | 0.523 | 0.919 | 2.51 | **2.21** | 2.96 | 0.941 | 2.33 | 0.252 | 5.28 | 0.326 | 4.72 | <43 | 70.6 | <0.0042 | <0.0042 | <0.0042 |
| SCI-20B (12/21/15) 12-16 ft | | | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <7.6 | <15.1 | <0.0044 | <0.0044 | <0.0044 |
| SCI-21A (12/21/15) 0-3 ft | | | 0.313 | 0.681 | 1.7 | **1.4** | 1.77 | 0.732 | 1.48 | <0.16 | 3.84 | 0.252 | 3.27 | <38 | <54 | <0.004 | <0.004 | <0.004 |
| SCI 21B (12/21/15) 12-16 ft | | | <0.0404 | <0.0404 | <0.0404 | <0.0404 | <0.0404 | <0.0404 | <0.0404 | <0.0404 | <0.0404 | <0.0404 | <0.0404 | <7.3 | <14.3 | <0.004 | <0.004 | <0.004 |
| SCI-22A (12/21/15) 0-3 ft | | | 1.21 | 2.97 | **6.38** | **5.15** | **6.81** | 2.27 | 5.86 | 0.559 | 14.9 | 0.944 | 12.1 | <95 | 155 | <0.0045 | <0.0045 | <0.0045 |
| SCI-22B (12/21/15) 4-8 ft | | | <0.18 | 0.382 | 1.17 | **1.04** | 1.42 | 0.457 | 1.13 | <0.13 | 2.71 | <0.13 | 2.39 | <38 | <45 | <0.0044 | <0.0044 | <0.0044 |
| SCI-23A (12/21/15) 0-3 ft | | | 2.9 | 7.3 | **19** | **16.2** | **22.1** | 7.56 | 17.1 | **1.59** | 42.5 | 2.46 | 36.7 | <270 | 452 | <0.0058 | <0.0058 | <0.0058 |
| SCI-23B (12/21/15) 8-12 ft | | | <0.0428 | <0.0428 | <0.0428 | <0.0428 | <0.0428 | <0.0428 | <0.0428 | <0.0428 | <0.0428 | <0.0428 | <0.0428 | <14 | <9.5 | <0.0054 | <0.0054 | <0.0054 |
| SCI-24A (12/21/15) 0-3 ft | | | 2.35 | 6.26 | **21.9** | **20.5** | **28.2** | 8.5 | 21.2 | **1.94** | 50.5 | 1.92 | 44.2 | <220 | <468 | <0.0052 | <0.0052 | <0.0052 |
| SCI-24B(12/21/15) 4-8 ft | | | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <15 | <15 | <0.0047 | <0.0047 | <0.0047 |
| SCI-25A (12/21/15) 0-3 ft | | | 0.229 | 0.58 | 2.05 | **1.81** | 2.7 | 0.779 | 1.78 | 0.163 | 4.18 | 0.16 | 3.86 | 16.9 | 46.4 | <0.0066 | <0.0066 | <0.0066 |
| SCI-25B (12/21/15) 16-20 ft | | | <0.0468 | <0.0468 | <0.0468 | <0.0468 | <0.0468 | <0.0468 | <0.0468 | <0.0468 | <0.023 | <0.0468 | <0.0468 | <34.2 | <15 | <0.0058 | <0.0058 | <0.0058 |
| SCI-26A (12/21/15) 0-3 ft | | | <0.0429 | <0.0429 | <0.026 | <0.0429 | <0.023 | <0.0429 | <0.0429 | <0.0429 | <0.042 | <0.0429 | <0.035 | <15.1 | <15.1 | <0.005 | <0.005 | <0.005 |
| **Default Target Levels (DTLs)** | | | **174** | **3,060** | **6.12** | **0.62** | **6.19** | **62.00** | **599** | **0.62** | **2,280** | **211** | **1,500** | **4,150** | **124,000** | **--[7]** | **3.93** | **0.882** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **3,130** | **15,700** | **6.20** | **0.62** | **6.19** | **62** | **599** | **0.62** | **2,280** | **2,200** | **1,710** | **140,000** | **124,000** | **--[7]** | **749** | **749** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **66,900** | **390,000** | **260,000** | **225,000** | **55,500** | **6,830,000** | **192,000** | **22,200,000** | **9,010,000** | **246,000** | **107,000,00** | **4,150** | **--[7]** | **--[7]** | **14.3** | **2.25** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface** | **Cumulative[4]** | **30,700** | **154,000** | **21.10** | **2.11** | **21** | **211** | **1,990** | **2.11** | **21,800** | **20,700** | **16,400** | **1,410,000** | **--[7]** | **--[7]** | **10,100** | **10,100** |
| | **Subsurface** | **Indoor Inhalation** | **538,000** | **3,140,000** | **1,360,000** | **1,180,000** | **291,000** | **35,800,000** | **1,010,000** | **116,000,000** | **72,500,000** | **1,980,000** | **864,00,000** | **33,400** | **--[7]** | **--[7]** | **115** | **18.1** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **25,700** | **135,000** | **1,190** | **119** | **1,140** | **11,900** | **65,700** | **119** | **43,800** | **27,500** | **33,700** | **3,010,000** | **2,890,000** | | **--[7]** | **431** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents.

**Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)**

| Sample ID (date) / Chemical | | | SVOCs | | | | | | | | | | | | | VOCs | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **Acenaphthene** | **Anthracene** | **Benzo(a)anthracene** | **Benzo(a)pyrene** | **Benzo(b)fluoranthene** | **Benzo(k)fluoranthene** | **Chrysene** | **Dibenzo(a,h)anthracene** | **Fluoranthene** | **Fluorene** | **Pyrene** | **TPH-DRO (C10 - C21)** | **TPH-ORO (C21 - C35)** | **1,2,3-Trimethylbenzene** | **1,2,4-Trimethylbenzene** | **1,3,5-Trimethylbenzene** |
| SCI-26B (12/21/15) 4-8 ft | | | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <14.8 | <14.8 | <0.0046 | <0.0046 | <0.0046 |
| SCI-27A (12/21/15) 0-3 ft | | | <3.85 | <3.85 | <3.85 | <3.85 | <3.85 | <3.85 | <3.85 | <3.85 | <3.85 | <3.85 | <3.85 | <1360 | <1360 | <0.0044 | <0.0044 | <0.0044 |
| SCI-27B (12/21/15) 16-20 ft | | | <0.0412 | <0.0412 | <0.0412 | <0.0412 | <0.0412 | <0.0412 | <0.0412 | <0.0412 | <0.0412 | <0.0412 | <0.0412 | <14.6 | <14.6 | <0.0044 | <0.0044 | <0.0044 |
| SCI-27D (12/21/15) 16-20 ft | | | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <14.1 | <14.1 | <0.0041 | <0.0041 | <0.0041 |
| SCI-28A (12/21/15) 0-3 ft | | | <0.041 | <0.029 | 0.134 | 0.124 | 0.212 | 0.0663 | 0.133 | <0.041 | 0.262 | <0.041 | 0.23 | <8.1 | <8.4 | <0.0047 | <0.0047 | <0.0047 |
| SCI-28B (12/21/15) 16-20 ft | | | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <7.4 | <14.8 | <0.0045 | <0.0045 | <0.0045 |
| SCI-29A (12/21/15) 0-3 ft | | | <1 | 2.46 | **7.55** | **6.48** | **9.24** | 2.78 | 6.73 | <2.03 | 16.6 | <2.03 | 14.3 | <715 | <715 | <0.0045 | <0.0045 | <0.0045 |
| SCI-29B (12/21/15) 4-8 ft | | | <2.12 | 2.37 | **7.89** | **6.66** | **9.32** | 3.12 | 7.41 | <2.12 | 17 | <2.12 | 15 | <749 | <749 | <0.0046 | <0.0046 | <0.0046 |
| SCI-30A (12/22/15) 0-3 ft | | | 0.639 | 1.78 | 3.94 | **4.96** | **6.48** | 2.23 | 3.59 | 0.537 | 8.41 | 0.553 | 7.2 | <82 | <140 | <0.0047 | <0.0047 | <0.0047 |
| SCI-30B (12/22/15) 16-20 ft | | | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <15.2. | <15.2 | <0.0045 | <0.0045 | <0.0045 |
| SCI-30D (12/22/15) 16-20 ft | | | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <15.1 | <15.1 | <0.0044 | <0.0044 | <0.0044 |
| SCI-31A (12/22/15) 0-3 ft | | | <0.0412 | <0.035 | 0.156 | 0.144 | 0.19 | 0.0646 | 0.154 | <0.0412 | 0.344 | <0.0412 | 0.306 | <7.5 | <10 | <0.0041 | <0.0041 | <0.0041 |
| SCI-31B (12/22/15) 16-20 ft | | | <0.041 | <0.041 | <0.041 | <0.041 | <0.041 | <0.041 | <0.041 | <0.041 | <0.041 | <0.041 | <0.041 | <14.5 | <14.5 | <0.0045 | <0.0045 | <0.0045 |
| SCI-32A (12/22/15) 0-3 ft | | | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <0.0425 | <15 | <15 | <0.0043 | <0.0043 | <0.0043 |
| SCI-32B (12/22/15) 16-20 ft | | | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <14.8 | <14.8 | <0.0045 | <0.0045 | <0.0045 |
| SCI-33A (12/22/15) 0-3 ft | | | <0.454 | <0.454 | 0.489 | 0.454 | 0.814 | <0.25 | <0.4 | <0.454 | 0.827 | <0.454 | 0.769 | 199 | 1030 | <0.0049 | <0.0049 | <0.0049 |
| SCI-33B (12/22/15) 16-20 ft | | | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <14.9 | <14.9 | <0.0044 | <0.0044 | <0.0044 |
| SCI-34A (12/22/15) 0-3 ft | | | 5.81 | 13.9 | **54.5** | **54.6** | **75.1** | 32.8 | 53.6 | **5.24** | 117 | <3.7 | 109 | <850 | 1740 | <0.0062 | <0.0062 | <0.0062 |
| SCI-34B (12/22/15) 16-20 ft | | | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <14.8 | <14.8 | <0.0043 | <0.0043 | <0.0043 |
| SCI-34D (12/22/15) 16-20 ft | | | <0.0419 | <0.0419 | <0.0419 | <0.0419 | <0.0419 | <0.0419 | <0.0419 | <0.0419 | <0.0419 | <0.0419 | <0.0419 | <14.8 | <14.8 | <0.0043 | <0.0043 | <0.0043 |
| SCI-35A (12/22/15) 0-3 ft | | | <0.0422 | <0.0422 | <0.031 | <0.026 | <0.034 | <0.0422 | <0.026 | <0.0422 | 0.0641 | <0.0422 | 0.0533 | <14.9 | <14.9 | <0.0044 | <0.0044 | <0.0044 |
| SCI-35B (12/22/15) 16-20 ft | | | <0.0408 | <0.0408 | <0.0408 | <0.0408 | <0.0408 | <0.0408 | <0.0408 | <0.0408 | <0.0408 | <0.0408 | <0.0408 | <14.4 | <14.4 | <0.0042 | <0.0042 | <0.0042 |
| SCI-36A (12/22/15)0-3 ft | | | <0.38 | 0.995 | 3.58 | **3.24** | 4.14 | 1.3 | 3.55 | 0.425 | 8.65 | <0.38 | 8 | <85 | 309 | <0.005 | <0.005 | <0.005 |
| SCI-36B (12/22/15) 16-20 ft | | | <0.0409 | <0.0409 | <0.0409 | <0.0409 | <0.0409 | <0.0409 | <0.0409 | <0.0409 | <0.0409 | <0.0409 | <0.0409 | <14.4 | <14.4 | <0.0043 | <0.0043 | <0.0043 |
| **Default Target Levels (DTLs)** | | | **174** | **3,060** | **6.12** | **0.62** | **6.19** | **62.00** | **599** | **0.62** | **2,280** | **211** | **1,500** | **4,150** | **124,000** | **--[7]** | **3.93** | **0.882** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **3,130** | **15,700** | **6.20** | **0.62** | **6.19** | **62** | **599** | **0.62** | **2,280** | **2,200** | **1,710** | **140,000** | **124,000** | **--[7]** | **749** | **749** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **66,900** | **390,000** | **260,000** | **225,000** | **55,500** | **6,830,000** | **192,000** | **22,200,000** | **9,010,000** | **246,000** | **107,000,00** | **4,150** | **--[7]** | **--[7]** | **14.3** | **2.25** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface (0-3 ft)** | **Cumulative[4]** | **30,700** | **154,000** | **21.10** | **2.11** | **21** | **211** | **1,990** | **2.11** | **21,800** | **20,700** | **16,400** | **1,410,000** | **--[7]** | **--[7]** | **10,100** | **10,100** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **538,000** | **3,140,000** | **1,360,000** | **1,180,000** | **291,000** | **35,800,000** | **1,010,000** | **116,000,000** | **72,500,000** | **1,980,000** | **864,00,000** | **33,400** | **--[7]** | **--[7]** | **115** | **18.1** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **25,700** | **135,000** | **1,190** | **119** | **1,140** | **11,900** | **65,700** | **119** | **43,800** | **27,500** | **33,700** | **3,010,000** | **2,890,000** | **--[7]** | **431** | **431** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents.

## Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)

| Sample ID (date) / Chemical | | | SVOCs | | | | | | | | | | | | | VOCs | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acenaphthene | Anthracene | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(k)fluoranthene | Chrysene | Dibenzo(a,h)anthracene | Fluoranthene | Fluorene | Pyrene | TPH-DRO (C10 - C21) | TPH-ORO (C21 - C35) | 1,2,3-Trimethylbenzene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene |
| SCI-37A (12/22/15) 0-3 ft | | | 0.422 | 0.96 | 3.91 | **3.63** | 4.75 | 1.87 | 3.85 | 0.454 | 8.29 | <0.31 | 7.19 | <145 | <120 | <0.0046 | <0.0046 | <0.0046 |
| SCI-37B (12/22/15) 16-20 ft | | | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <14.7 | <14.7 | <0.0048 | <0.0048 | <0.0048 |
| SCI-38A (12/22/15) 0-3 ft | | | <0.0414 | <0.0414 | <0.0414 | <0.0414 | <0.0414 | <0.0414 | <0.0414 | <0.0414 | <0.0414 | <0.0414 | <0.0414 | <14.6 | <14.6 | <0.0045 | <0.0045 | <0.0045 |
| SCI-38B (12/22/15) 16-20 ft | | | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <14.9 | <14.9 | <0.0044 | <0.0044 | <0.0044 |
| SCI-39A (12/22/15) 0-3 ft | | | <0.199 | <0.199 | <0.15 | <0.11 | <0.16 | <0.199 | <0.11 | <0.199 | 0.252 | <0.199 | 0.223 | <70.3 | <70.3 | <0.0045 | <0.0045 | <0.0045 |
| SCI-39B (12/22/15) 16-20 ft | | | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <15.4 | <15.4 | <0.0048 | <0.0048 | <0.0048 |
| SCI-40A (1/11/16) | | | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <8.8 | <15 | <0.0048 | <0.0048 | <0.0048 |
| SCI-40B (1/11/16) | | | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <0.0429 | <8.4 | <8.6 | <0.0046 | <0.0046 | <0.0046 |
| SCI-40D (1/11/16) | | | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <8.4 | <7.6 | <0.0047 | <0.0047 | <0.0047 |
| SCI-41A (1/11/16) | | | 0.505 | 0.915 | 2.06 | **1.87** | 2.56 | 1 | 2.01 | 0.183 | 4.28 | 0.427 | 3.65 | 36.1 | 133 | <0.133 | <0.043 | <0.133 |
| SCI-41B (1/11/16) | | | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <8.2 | <15.2 | <0.0047 | <0.0047 | <0.0047 |
| SCI-42A (1/11/16) | | | <0.0418 | <0.0418 | <0.0418 | <0.0418 | <0.0418 | <0.0418 | <0.0418 | <0.0418 | <0.0418 | <0.0418 | <0.0418 | <7.8 | <14.8 | <0.0044 | <0.0044 | <0.0044 |
| SCI-42B (1/11/16) | | | <0.0432 | <0.0432 | <0.0432 | <0.0432 | <0.0432 | <0.0432 | <0.0432 | <0.0432 | <0.0432 | <0.0432 | <0.0432 | <7.8 | <15.2 | <0.0046 | <0.0046 | <0.0046 |
| SCI-43A (1/11/16) | | | 0.224 | 0.505 | 1.78 | **1.74** | 2.53 | 0.729 | 1.71 | 0.173 | 4.03 | 0.175 | 3.57 | <25 | 67.1 | <0.0044 | <0.0044 | <0.0044 |
| SCI-43B (1/11/16) | | | <0.08 | 0.345 | 1.99 | **1.32** | 1.92 | 0.636 | 1.73 | 0.173 | 4.14 | <0.054 | 3.52 | <22 | 61.5 | <0.0049 | <0.0049 | <0.0049 |
| SCI-44A (1/11/16) | | | <0.0948 | 0.26 | 0.639 | 0.567 | 0.7 | 0.23 | 0.608 | <0.073 | 1.31 | 0.116 | 1.25 | <18 | 29.8 | <0.0044 | <0.0044 | <0.0044 |
| SCI-44B (1/11/16) | | | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <8.1 | <14.9 | <0.0044 | <0.0044 | <0.0044 |
| SCI-45A (1/11/16) | | | 0.164 | 0.473 | 2.77 | **2.49** | 3.82 | 1.07 | 2.51 | 0.279 | 5.24 | 0.115 | 4.64 | <0.024 | 82.4 | <0.0052 | <0.0052 | <0.0052 |
| SCI-45B (1/11/16) | | | <0.0434 | <0.0434 | <0.0434 | <0.0434 | <0.0434 | <0.0434 | <0.0434 | <0.0434 | <0.0434 | <0.0434 | <0.0434 | <9.6 | <10 | <0.0047 | <0.0047 | <0.0047 |
| SCI-46A (1/11/16) | | | <0.044 | 0.0881 | 0.534 | **0.708** | 1.28 | 0.437 | 0.605 | 0.0991 | 0.801 | <0.0858 | 0.809 | <20 | 32.7 | <0.046 | 0.0775 | <0.0375 |
| SCI-46B (1/11/16) | | | <0.0428 | <0.0428 | <0.027 | <0.0428 | <0.0428 | <0.0428 | <0.0428 | <0.0428 | 0.0539 | <0.0428 | 0.0449 | <8 | <7.6 | <0.0042 | <0.0042 | <0.0042 |
| SCI-47A (1/12/16) 0-3 ft | | | <0.0432 | <0.0432 | <0.0432 | <0.0432 | <0.0432 | <0.0432 | <0.0432 | <0.0432 | <0.0432 | <0.0432 | <0.0432 | <8.2 | <15.3 | <0.0049 | <0.0049 | <0.0049 |
| **Default Target Levels (DTLs)** | | | **174** | **3,060** | **6.12** | **0.62** | **6.19** | **62.00** | **599** | **0.62** | **2,280** | **211** | **1,500** | **4,150** | **124,000** | **--[7]** | **3.93** | **0.882** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative** | **3,130** | **15,700** | **6.20** | **0.62** | **6.19** | **62** | **599** | **0.62** | **2,280** | **2,200** | **1,710** | **140,000** | **124,000** | **--[7]** | **749** | **749** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **66,900** | **390,000** | **260,000** | **225,000** | **55,500** | **6,830,000** | **192,000** | **22,200,000** | **9,010,000** | **246,000** | **107,000,00** | **4,150** | **--[7]** | **--[7]** | **14.3** | **2.25** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface (0-3 ft)** | **Cumulative** | **30,700** | **154,000** | **21.10** | **2.11** | **21** | **211** | **1,990** | **2.11** | **21,800** | **20,700** | **16,400** | **1,410,000** | **--[7]** | **--[7]** | **10,100** | **10,100** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **538,000** | **3,140,000** | **1,360,000** | **1,180,000** | **291,000** | **35,800,000** | **1,010,000** | **116,000,000** | **72,500,000** | **1,980,000** | **864,00,000** | **33,400** | **--[7]** | **--[7]** | **115** | **18.1** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative** | **25,700** | **135,000** | **1,190** | **119** | **1,140** | **11,900** | **65,700** | **119** | **43,800** | **27,500** | **33,700** | **3,010,000** | **2,890,000** | **--[7]** | **431** | **431** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents.

**Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)**

| Sample ID (date) / Chemical | | | SVOCs | | | | | | | | | | | | | VOCs | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acenaphthene | Anthracene | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(k)fluoranthene | Chrysene | Dibenzo(a,h)anthracene | Fluoranthene | Fluorene | Pyrene | TPH-DRO (C10 - C21) | TPH-ORO (C21 - C35) | 1,2,3-Trimethylbenzene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene |
| SCI-47B (1/12/16) 15-20 ft | | | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <0.0416 | <7.9 | <14.7 | <0.0045 | <0.0045 | <0.0045 |
| SCI-47D (1/12/16) 15-20 ft | | | <0.0417 | <0.0417 | <0.0417 | <0.0417 | <0.0417 | <0.0417 | <0.0417 | <0.0417 | <0.0417 | <0.0417 | <0.0417 | <8.5 | <14.7 | <0.0043 | <0.0043 | <0.0043 |
| SCI-48A (1/12/16) 0-3 ft | | | <0.0438 | <0.0438 | <0.0438 | <0.0438 | <0.0438 | <0.0438 | <0.0438 | <0.0438 | <0.0438 | <0.0438 | <0.0438 | <8.5 | <15.5 | <0.0048 | <0.0048 | <0.0048 |
| SCI-48B (1/12/16) 15-20 ft | | | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <0.0437 | <8.4 | <15.4 | <0.0048 | <0.0048 | <0.0048 |
| SCI-49A (1/12/16) 0-3 ft | | | <0.0428 | <0.0428 | <0.0428 | <0.0428 | <0.0428 | <0.0428 | <0.0428 | <0.0428 | <0.0428 | <0.0428 | <0.0428 | <8.6 | <8.1 | <0.0047 | <0.0047 | <0.0047 |
| SCI-49B (1/12/16) 15-20 ft | | | <0.0431 | <0.0431 | <0.0431 | <0.0431 | <0.0431 | <0.0431 | <0.0431 | <0.0431 | <0.0431 | <0.0431 | <0.0431 | <8.3 | <15.2 | <0.0046 | <0.0046 | <0.0046 |
| SCI-50A (1/12/16) 0-3 ft | | | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <8.6 | <7.9 | <0.0047 | <0.0047 | <0.0047 |
| SCI-50B (1/12/16) 15-20 ft | | | <0.0413 | <0.0413 | <0.0413 | <0.0413 | <0.0413 | <0.0413 | <0.0413 | <0.0413 | <0.0413 | <0.0413 | <0.0413 | <7.7 | <14.6 | <0.0045 | <0.0045 | <0.0045 |
| SCI-51A (1/12/16) 0-3 ft | | | <0.0387 | <0.038 | 0.205 | 0.178 | 0.228 | 0.0941 | 0.177 | <0.026 | 0.393 | <0.0387 | 0.342 | <8.5 | <14.7 | <0.0046 | <0.0046 | <0.0046 |
| SCI-51B (1/12/16) 15-20 ft | | | <0.0411 | <0.0411 | <0.0411 | <0.0411 | <0.0411 | <0.0411 | <0.0411 | <0.0411 | <0.0411 | <0.0411 | <0.0411 | <7.8 | <14.5 | <0.0044 | <0.0044 | <0.0044 |
| SCI-52A (1/12/16) 0-3 ft | | | 2.78 | 5.48 | **13.3** | **11.4** | **15.4** | 4.58 | 11.2 | **1.06** | 29.3 | 2.28 | 29.2 | 144 | 313 | <0.0044 | <0.0044 | <0.0044 |
| SCI-52B (1/12/16) 10-15 ft | | | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <8 | <14.9 | <0.0046 | <0.0046 | <0.0046 |
| SCI-53A (1/12/16) 0-3 ft | | | <0.0443 | <0.0443 | <0.0443 | <0.0443 | <0.0443 | <0.0443 | <0.0443 | <0.0443 | <0.0443 | <0.0443 | <0.0443 | <8.3 | <15.6 | <0.0049 | <0.0049 | <0.0049 |
| SCI-53B (1/12/16) 15-20 ft | | | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <8.1 | <15 | <0.0045 | <0.0045 | <0.0045 |
| SCI-54A (1/12/16) 0-3 ft | | | 0.727 | 1.48 | 3.85 | **3.52** | 5.15 | 1.49 | 3.54 | 0.296 | 8.99 | 0.577 | 7.96 | <58 | 118 | <0.0042 | <0.0042 | <0.0042 |
| SCI-54B (1/12/16) 15-20 ft | | | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <7.7 | <14.9 | <0.0047 | <0.0047 | <0.0047 |
| SCI-54D (1/12/16) 15-20 ft | | | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <7.8 | <15 | <0.0046 | <0.0046 | <0.0046 |
| SCI-55A (1/12/16) 0-3 ft | | | <0.0399 | <0.0399 | <0.0399 | <0.0399 | <0.0399 | <0.0399 | <0.0399 | <0.0399 | <0.0399 | <0.0399 | <0.0399 | <7.2 | <14.1 | <0.0042 | <0.0042 | <0.0042 |
| SCI-55B (1/12/16) 15-20 ft | | | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <0.0426 | <7.8 | <15.1 | <0.0046 | <0.0046 | <0.0046 |
| SCI-57A (1/12/16) 0-3 ft | | | 0.251 | 0.64 | 2.02 | **1.76** | 2.17 | 0.88 | 1.83 | 0.227 | 4.23 | <0.18 | 3.83 | <46 | <77 | <0.0051 | <0.0051 | <0.0051 |
| SCI-57B (1/12/16) 15-20 ft | | | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <7.6 | <14.9 | <0.0045 | <0.0045 | <0.0045 |
| SCI-58A (1/12/16) 0-3 ft | | | <2.71 | 2.82 | **8.57** | **6.94** | **8.91** | 3.5 | 8.01 | <2.71 | 19.2 | <2.71 | 16.9 | <955 | <540 | <0.0041 | <0.0041 | <0.0041 |
| SCI-58B (1/12/16) 10-15 ft | | | <0.0409 | <0.0409 | <0.022 | <0.0409 | <0.0409 | <0.0409 | <0.0409 | <0.0409 | <0.04 | <0.0409 | <0.035 | <9.3 | <14.4 | <0.0041 | <0.0041 | <0.0041 |
| SCI-59A (1/12/16) 0-3 ft | | | <2.52 | <2.52 | <1.3 | <2.52 | <2.52 | <2.52 | <2.52 | <2.52 | <1.9 | <2.52 | <1.9 | <890 | <680 | <0.0041 | <0.0041 | <0.0041 |
| **Default Target Levels (DTLs)** | | | **174** | **3,060** | **6.12** | **0.62** | **6.19** | **62.00** | **599** | **0.62** | **2,280** | **211** | **1,500** | **4,150** | **124,000** | **--[7]** | **3.93** | **0.882** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **3,130** | **15,700** | **6.20** | **0.62** | **6.19** | **62** | **599** | **0.62** | **2,280** | **2,200** | **1,710** | **140,000** | **124,000** | **--[7]** | **749** | **749** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **66,900** | **390,000** | **260,000** | **225,000** | **55,500** | **6,830,000** | **192,000** | **22,200,000** | **9,010,000** | **246,000** | **107,000,00** | **4,150** | **--[7]** | **--[7]** | **14.3** | **2.25** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface (0-3 ft)** | **Cumulative[4]** | **30,700** | **154,000** | **21.10** | **2.11** | **21** | **211** | **1,990** | **2.11** | **21,800** | **20,700** | **16,400** | **1,410,000** | **--[7]** | **--[7]** | **10,100** | **10,100** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **538,000** | **3,140,000** | **1,360,000** | **1,180,000** | **291,000** | **35,800,000** | **1,010,000** | **116,000,000** | **72,500,000** | **1,980,000** | **864,00,000** | **33,400** | **--[7]** | **--[7]** | **115** | **18.1** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **25,700** | **135,000** | **1,190** | **119** | **1,140** | **11,900** | **65,700** | **119** | **43,800** | **27,500** | **33,700** | **3,010,000** | **2,890,000** | **--[7]** | **431** | **431** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents.

## Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)

| Sample ID (date) / Chemical | | | SVOCs | | | | | | | | | | | | | VOCs | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acenaphthene | Anthracene | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(k)fluoranthene | Chrysene | Dibenzo(a,h)anthracene | Fluoranthene | Fluorene | Pyrene | TPH-DRO (C10 - C21) | TPH-ORO (C21 - C35) | 1,2,3-Trimethylbenzene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene |
| SCI-59B (1/12/16) 15-20 ft | | | <0.0421 | <0.0421 | <0.0421 | <0.0421 | <0.0421 | <0.0421 | <0.0421 | <0.0421 | <0.0421 | <0.0421 | <0.0421 | <8.4 | <14.9 | <0.0044 | <0.0044 | <0.0044 |
| SCI-61A (1/13/16) 0-3 ft | | | 1.57 | 4.73 | **11.3** | **10.4** | **12.8** | 5.28 | 9.43 | **0.855** | 31 | 1.53 | 25.2 | <110 | 297 | <0.004 | <0.004 | <0.004 |
| SCI-61B (1/13/16) 15-20 ft | | | <0.0413 | <0.0413 | <0.0413 | <0.0413 | <0.0413 | <0.0413 | <0.0413 | <0.0413 | <0.0413 | <0.0413 | <0.0413 | <7.6 | <14.6 | <0.0045 | <0.0045 | <0.0045 |
| SCI-63A (1/13/16) 0-3 ft | | | 0.246 | 0.528 | 1.69 | **1.55** | 1.95 | 0.623 | 1.46 | <0.17 | 3.59 | <0.16 | 3.28 | <39 | <64 | <0.0049 | <0.0049 | <0.0049 |
| SCI-63B (1/13/16) 15-20 ft | | | <0.0403 | <0.0403 | <0.0403 | <0.0403 | <0.0403 | <0.0403 | <0.0403 | <0.0403 | <0.0403 | <0.0403 | <0.0403 | <7.5 | <14.2 | <0.0041 | <0.0041 | <0.0041 |
| SCI-64A (1/13/16) 0-3 ft | | | 0.529 | 1.3 | 4.52 | **3.65** | 5.49 | 2.04 | 4.42 | <0.3 | 10.4 | 0.565 | 9.11 | <85 | 191 | <0.0041 | <0.0041 | <0.0041 |
| SCI-64B (1/13/16) 15-20 ft | | | <0.41 | 0.942 | <0.412 | <0.412 | <0.412 | <0.412 | <0.412 | <0.412 | <0.412 | 0.776 | <0.3 | 508 | <99 | 1.240 | 3.250 | 0.404 |
| SCI-65A (1/13/16) 0-3 ft | | | <0.205 | <0.205 | 0.662 | **0.701** | 0.919 | 0.382 | 0.708 | <0.205 | 1.2 | <0.205 | 1.1 | <72.4 | <37 | <0.0043 | <0.0043 | <0.0043 |
| SCI-65B (1/13/16) 15-20 ft | | | <0.0509 | <0.0509 | <0.0509 | <0.0509 | <0.0509 | <0.0509 | <0.0509 | <0.0509 | <0.0509 | <0.0509 | <0.0509 | <9.1 | <18 | <0.0052 | <0.0052 | <0.0052 |
| SCI-66A (1/13/16) 0-3 ft | | | 0.681 | 1.58 | 4.17 | **2.91** | 4.12 | 1.16 | 3.42 | 0.337 | 9.62 | 0.489 | 8.16 | <50 | 90.4 | <0.0052 | <0.0052 | <0.0052 |
| SCI-66B (1/13/16) 10-15 ft | | | 0.369 | 0.995 | 2.24 | **1.64** | 2.07 | 0.717 | 1.75 | 0.0696 | 4.71 | 0.429 | 4.08 | 22.7 | 44.3 | <0.0045 | <0.0045 | <0.0045 |
| SCI-67A (1/13/16) 0-3 ft | | | <0.16 | 0.424 | 1.52 | **1.36** | 1.72 | 0.69 | 1.44 | <0.18 | 3.33 | <0.12 | 3.11 | <40 | <65 | <0.0047 | <0.0047 | <0.0047 |
| SCI-67B (1/13/16) 15-20 ft | | | <0.0433 | <0.0433 | <0.0433 | <0.0433 | <0.0433 | <0.0433 | <0.0433 | <0.0433 | <0.0433 | <0.0433 | <0.0433 | <8 | <15.3 | <0.0047 | <0.0047 | <0.0047 |
| SCI-67D (1/13/16) 15-20 ft | | | <0.434 | <0.434 | <0.434 | <0.434 | <0.434 | <0.434 | <0.434 | <0.434 | <0.434 | <0.434 | <0.434 | <8 | <15.3 | <0.0046 | <0.0046 | <0.0046 |
| SCI-68A (1/13/16) 0-3 ft | | | <0.0412 | <0.0412 | <0.0412 | <0.0412 | <0.0412 | <0.0412 | <0.0412 | <0.0412 | <0.0412 | <0.0412 | <0.0412 | <7.5 | <14.5 | <0.0044 | <0.0044 | <0.0044 |
| SCI-68B (1/13/16) 15-20 ft | | | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <7.8 | <14.9 | <0.0044 | <0.0044 | <0.0044 |
| SCI-69A (1/13/16) 0-3 ft | | | <0.046 | 0.124 | 0.532 | 0.503 | 0.697 | 0.239 | 0.505 | <0.058 | 1.15 | <0.0804 | 1.07 | <18 | 36.6 | <0.0046 | <0.0046 | <0.0046 |
| SCI-69B (1/13/16) 15-20 ft | | | <0.418 | <0.418 | <0.418 | <0.418 | <0.418 | <0.418 | <0.418 | <0.418 | <0.418 | <0.418 | <0.418 | <7.7 | <14.8 | <0.0042 | <0.0042 | <0.0042 |
| SCI-70A (1/13/16) 0-3 ft | | | 0.317 | 0.658 | 2.19 | **1.94** | 2.87 | 0.875 | 2.02 | <0.18 | 5.11 | 0.216 | 4.5 | <43 | <79.7 | <0.0041 | <0.0041 | <0.0041 |
| SCI-70B (1/13/16) 15-20 ft | | | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <0.0423 | <7.8 | <14.9 | <0.0044 | <0.0044 | <0.0044 |
| SCI-70D (1/13/16) 15-20 ft | | | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <0.0422 | <14.9 | <14.9 | <0.0046 | <0.0046 | <0.0046 |
| SCI-71A (1/13/16) 0-3 ft | | | <0.0831 | <0.0831 | 0.2 | 0.197 | 0.266 | 0.102 | 0.218 | <0.0831 | 0.494 | <0.0831 | 0.431 | <16 | <20 | <0.0047 | <0.0047 | <0.0047 |
| SCI-71B (1/13/16) 15-20 ft | | | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <0.043 | <7.8 | <15.2 | <0.0046 | <0.0046 | <0.0046 |
| SCI-75A (1/13/16) 0-3 ft | | | <0.0415 | <0.0415 | 0.0797 | 0.082 | 0.113 | <0.032 | 0.0813 | <0.0415 | 0.168 | <0.0415 | 0.158 | <9.7 | <11 | <0.0043 | <0.0043 | <0.0043 |
| **Default Target Levels (DTLs)** | | | **174** | **3,060** | **6.12** | **0.62** | **6.19** | **62.00** | **599** | **0.62** | **2,280** | **211** | **1,500** | **4,150** | **124,000** | **--[7]** | **3.93** | **0.882** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **3,130** | **15,700** | **6.20** | **0.62** | **6.19** | **62** | **599** | **0.62** | **2,280** | **2,200** | **1,710** | **140,000** | **124,000** | **--[7]** | **749** | **749** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **66,900** | **390,000** | **260,000** | **225,000** | **55,500** | **6,830,000** | **192,000** | **22,200,000** | **9,010,000** | **246,000** | **107,000,00** | **4,150** | **--[7]** | **--[7]** | **14.3** | **2.25** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface (0-3 ft)** | **Cumulative[4]** | **30,700** | **154,000** | **21.10** | **2.11** | **21** | **211** | **1,990** | **2.11** | **21,800** | **20,700** | **16,400** | **1,410,000** | **--[7]** | **--[7]** | **10,100** | **10,100** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **538,000** | **3,140,000** | **1,360,000** | **1,180,000** | **291,000** | **35,800,000** | **1,010,000** | **116,000,000** | **72,500,000** | **1,980,000** | **864,00,000** | **33,400** | **--[7]** | **--[7]** | **115** | **18.1** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **25,700** | **135,000** | **1,190** | **119** | **1,140** | **11,900** | **65,700** | **119** | **43,800** | **27,500** | **33,700** | **3,010,000** | **2,890,000** | **--[7]** | **431** | **431** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents.

## Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)

| Sample ID (date) / Chemical | | | SVOCs | | | | | | | | | | | | | VOCs | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acenaphthene | Anthracene | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(k)fluoranthene | Chrysene | Dibenzo(a,h)anthracene | Fluoranthene | Fluorene | Pyrene | TPH-DRO (C10 - C21) | TPH-ORO (C21 - C35) | 1,2,3-Trimethylbenzene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene |
| SCI-75B (1/13/16) 15-20 ft | | | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <0.0424 | <7.9 | <15 | <0.0044 | <0.0044 | <0.0044 |
| SCI-77A (1/13/16) 0-3 ft | | | <0.205 | <0.17 | 0.74 | **0.65** | 0.932 | 0.298 | 0.703 | <0.205 | 1.53 | <0.205 | 1.38 | <72.4 | <45 | <0.0046 | <0.0046 | <0.0046 |
| SCI-77B (1/13/16) 15-20 ft | | | <0.0431 | <0.0431 | <0.0431 | <0.0431 | <0.0431 | <0.0431 | <0.0431 | <0.0431 | <0.0431 | <0.0431 | <0.0431 | <15.2 | <15.2 | <0.0047 | <0.0047 | <0.0047 |
| **Default Target Levels (DTLs)** | | | **174** | **3,060** | **6.12** | **0.62** | **6.19** | **62.00** | **599** | **0.62** | **2,280** | **211** | **1,500** | **4,150** | **124,000** | **--[7]** | **3.93** | **0.882** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **3,130** | **15,700** | **6.20** | **0.62** | **6.19** | **62** | **599** | **0.62** | **2,280** | **2,200** | **1,710** | **140,000** | **124,000** | **--[7]** | **749** | **749** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **66,900** | **390,000** | **260,000** | **225,000** | **55,500** | **6,830,000** | **192,000** | **22,200,000** | **9,010,000** | **246,000** | **107,000,00** | **4,150** | **--[7]** | **--[7]** | **14.3** | **2.25** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface** | **Cumulative[4]** | **30,700** | **154,000** | **21.10** | **2.11** | **21** | **211** | **1,990** | **2.11** | **21,800** | **20,700** | **16,400** | **1,410,000** | **--[7]** | **--[7]** | **10,100** | **10,100** |
| | **Subsurface** | **Indoor Inhalation** | **538,000** | **3,140,000** | **1,360,000** | **1,180,000** | **291,000** | **35,800,000** | **1,010,000** | **116,000,000** | **72,500,000** | **1,980,000** | **864,00,000** | **33,400** | **--[7]** | **--[7]** | **115** | **18.1** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **25,700** | **135,000** | **1,190** | **119** | **1,140** | **11,900** | **65,700** | **119** | **43,800** | **27,500** | **33,700** | **3,010,000** | **2,890,000** | **--[7]** | **431** | **431** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents.

**Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)**

| Sample ID (date) / Chemical | | | VOCs | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ethylbenzene | m,p-Xylenes | Naphthalene | n-Butylbenzene | n-Propylbenzene | o-Xylene | p-Isopropyltoluene | Tetrachloroethene | Toluene | TPH-GRO | Xylenes (total) |
| SCI-1A (12/17/15) 0-3 ft | | | <0.0056 | <0.0056 | <0.0112 | <0.0056 | <0.0056 | <0.0056 | <0.0056 | <0.0056 | <0.0056 | <0.340 | <0.0056 |
| SCI-1B (12/17/15) 12-16 ft | | | <0.0052 | <0.0052 | <0.0104 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.250 | <0.0052 |
| SCI-2A (12/17/15) 0-3 ft | | | <0.0058 | <0.0058 | <0.0116 | <0.0058 | <0.0058 | <0.0058 | <0.0058 | <0.0058 | <0.0058 | <0.579 | <0.0058 |
| SCI-2B (12/17/15) 16-20 ft | | | <0.0043 | <0.0043 | <0.0086 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.340 | <0.0043 |
| SCI-3A (12/17/15) 0-3 ft | | | <0.0046 | <0.0046 | <0.0093 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.200 | <0.0046 |
| SCI-3B (12/17/15) 12-16 ft | | | <0.0066 | <0.0066 | <0.133 | <0.0066 | <0.006 | <0.006 | <0.006 | <0.0066 | <0.0066 | <0.663 | <0.0066 |
| SCI-4A (12/17/15) 0-3 ft | | | 0.0369 | 0.139 | <0.0105 | <0.0053 | <0.0028 | 0.0472 | <0.0053 | <0.0053 | 8.300 | 4.700 | 0.186 |
| SCI-4B (12/17/15) 16-20 ft | | | <0.0042 | <0.0042 | <0.0083 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.415 | <0.0042 |
| SCI-4D (12/17/15) 16-20 ft | | | <0.0046 | <0.0046 | <0.0092 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.460 | <0.0046 |
| SCI-5A (12/17/15) 0-3 ft | | | <0.0045 | <0.0045 | <0.009 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.450 | <0.0045 |
| SCI-5B (12/17/15) 4-8 ft | | | <0.121 | <0.121 | <0.170 | <0.052 | <0.121 | <0.121 | 0.399 | 0.123 | <0.121 | <10 | <0.031 |
| SCI-6A (12/17/15) 0-3 ft | | | <0.0045 | <0.0045 | <0.009 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.448 | <0.0045 |
| SCI-6B (12/17/15) 16-20 ft | | | <0.0041 | <0.0041 | <0.0081 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.406 | <0.0041 |
| SCI-7A (12/17/15) 0-3 ft | | | <0.0049 | <0.0049 | <0.0098 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.270 | <0.0049 |
| SCI-7B (12/17/15) 16-20 ft | | | <0.0044 | <0.0044 | <0.0089 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.444 | <0.0044 |
| SCI-8A (12/17/15) 0-3 ft | | | <0.0045 | <0.0045 | <0.0091 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.453 | <0.0045 |
| SCI-8B (12/17/15) 16-20 ft | | | <0.0046 | <0.0046 | <0.0093 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.465 | <0.0046 |
| SCI-9A (12/17/15) 0-3 ft | | | <0.0048 | <0.0048 | <0.0097 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.483 | <0.0048 |
| SCI-9B (12/17/15) 16-20 ft | | | <0.0047 | <0.0047 | <0.0094 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.473 | <0.0047 |
| SCI-10A (12/18/15) 0-3 ft | | | <0.0045 | <0.0045 | <0.009 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.449 | <0.0045 |
| SCI-10B (12/1/15) 12-16 ft | | | <0.004 | <0.0047 | <0.0093 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.467 | <0.0047 |
| SCI-11A (12/18/15) 0-3 ft | | | <0.0046 | <0.0046 | <0.0092 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.461 | <0.0046 |
| SCI-11B (12/18/15) 16-20 ft | | | <0.0046 | <0.0046 | <0.0093 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.463 | <0.0046 |
| SCI-12A (12/18/15) 0-3 ft | | | <0.0045 | <0.0045 | <0.009 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.449 | <0.0045 |
| **Default Target Levels (DTLs)** | | | **39.9** | **24.7** | **0.325** | **41.6** | **13** | **24.7** | **271** | **0.141** | **29.8** | **385** | **24.7** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **7,450** | **7,830** | **36.3** | **2730** | **2,730** | **7,830** | **20,500** | **11.8** | **6,210** | **354,000** | **7,830** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **193** | **24.7** | **25.9** | **118** | **39.9** | **24.7** | **1,100** | **0.3** | **499** | **385** | **24.7** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface (0-3 ft)** | **Cumulative[4]** | **97,500** | **104,000** | **119** | **35,900** | **35,900** | **104,000** | **269,000** | **52.7** | **81,100** | **4,650,000** | **104,000** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **1,550** | **199** | **136** | **946** | **321** | **199** | **8,820** | **1.57** | **4,010** | **3,100** | **199** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **58,100** | **7,210** | **215** | **9,260** | **9,260** | **7,210** | **69,400** | **2560** | **138,000** | **90,600** | **7,210** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents.

**Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)**

| Sample ID (date) / Chemical | | | VOCs | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ethylbenzene | m,p-Xylenes | Naphthalene | n-Butylbenzene | n-Propylbenzene | o-Xylene | p-Isopropyltoluene | Tetrachloroethene | Toluene | TPH-GRO | Xylenes (total) |
| SCI-12B (12/18/15) 12-16 ft | | | <0.0042 | <0.0042 | <0.0083 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.417 | <0.0042 |
| SCI-13A (12/18/15) 0-3 ft | | | <0.0047 | <0.0047 | <0.0094 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.190 | <0.0047 |
| SCI-13B (12/18/15) 16-20 ft | | | <0.0046 | <0.0046 | <0.0091 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.456 | <0.0046 |
| SCI-13D (12/18/18) 16-20 ft | | | <0.0048 | <0.0048 | <0.0095 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.475 | <0.0048 |
| SCI-14A (12/18/15) 0-3 ft | | | <0.0053 | <0.0053 | <0.0106 | <0.0053 | <0.0053 | <0.0053 | <0.0053 | <0.0053 | <0.0053 | <0.531 | <0.0053 |
| SCI-14B (12/18/15) 16-20 ft | | | <0.0046 | <0.0046 | <0.0092 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.461 | <0.0046 |
| SCI-15A (12/18/15) 0-3 ft | | | <0.0046 | <0.0046 | <0.0092 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.462 | <0.0046 |
| SCI-15B (12/18/15) 12-16 ft | | | <0.046 | <0.110 | <0.424 | <0.212 | <0.212 | <0.081 | <0.060 | <0.212 | <0.095 | <12 | <0.190 |
| SCI-16A (12/18/15) 0-3 ft | | | <0.005 | <0.005 | <0.101 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.504 | <0.005 |
| SCI-16B (12/18/15) 0-3 ft | | | <0.0045 | <0.0045 | <0.0091 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.454 | <0.0045 |
| SCI-17A (12/18/15) 0-3 ft | | | <0.0042 | <0.0042 | <0.0084 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.419 | <0.0042 |
| SCI-17B (12/18/15) 16-20 ft | | | <0.0047 | <0.0047 | <0.0094 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.300 | <0.0047 |
| SCI-20A (12/21/15) 0-3 ft | | | <0.0042 | <0.0042 | <0.0085 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.423 | <0.0042 |
| SCI-20B (12/21/15) 12-16 ft | | | <0.0044 | <0.0044 | <0.0088 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.439 | <0.0044 |
| SCI-21A (12/21/15) 0-3 ft | | | <0.004 | <0.004 | <0.008 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.398 | <0.004 |
| SCI 21B (12/21/15) 12-16 ft | | | <0.004 | <0.004 | <0.008 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.399 | <0.004 |
| SCI-22A (12/21/15) 0-3 ft | | | <0.0045 | <0.0045 | <0.0091 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.453 | <0.0045 |
| SCI-22B (12/21/15) 4-8 ft | | | <0.0044 | <0.0044 | <0.0089 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.260 | <0.0044 |
| SCI-23A (12/21/15) 0-3 ft | | | <0.0058 | <0.0058 | <0.116 | <0.0058 | <0.0058 | <0.0058 | <0.0058 | <0.0058 | <0.0058 | <0.580 | <0.0058 |
| SCI-23B (12/21/15) 8-12 ft | | | <0.0054 | <0.0054 | <0.107 | <0.0054 | <0.0054 | <0.0054 | <0.0054 | <0.0054 | <0.0054 | <0.250 | <0.0054 |
| SCI-24A (12/21/15) 0-3 ft | | | <0.0052 | <0.0052 | 0.0103 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.270 | <0.0052 |
| SCI-24B(12/21/15) 4-8 ft | | | <0.0047 | <0.0047 | <0.0094 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.469 | <0.0047 |
| SCI-25A (12/21/15) 0-3 ft | | | <0.0066 | <0.0066 | <0.0131 | <0.0066 | <0.0066 | <0.0066 | <0.0066 | <0.0066 | <0.0015 | <0.410 | <0.0066 |
| SCI-25B (12/21/15) 16-20 ft | | | <0.0058 | <0.0058 | <0.0117 | <0.0058 | <0.0058 | <0.0058 | <0.0058 | <0.0058 | <0.0058 | <0.584 | <0.0058 |
| SCI-26A (12/21/15) 0-3 ft | | | <0.005 | <0.005 | <0.010 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.495 | <0.005 |
| **Default Target Levels (DTLs)** | | | **39.9** | **24.7** | **0.325** | **41.6** | **13** | **24.7** | **271** | **0.141** | **29.8** | **385** | **24.7** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **7,450** | **7,830** | **36.3** | **2730** | **2,730** | **7,830** | **20,500** | **11.8** | **6,210** | **354,000** | **7,830** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **193** | **24.7** | **25.9** | **118** | **39.9** | **24.7** | **1,100** | **0.3** | **499** | **385** | **24.7** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface (0-3 ft)** | **Cumulative[4]** | **97,500** | **104,000** | **119** | **35,900** | **35,900** | **104,000** | **269,000** | **52.7** | **81,100** | **4,650,000** | **104,000** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **1,550** | **199** | **136** | **946** | **321** | **199** | **8,820** | **1.57** | **4,010** | **3,100** | **199** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **58,100** | **7,210** | **215** | **9,260** | **9,260** | **7,210** | **69,400** | **2560** | **138,000** | **90,600** | **7,210** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents.

**Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)**

| Sample ID (date) / Chemical | | | VOCs | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ethylbenzene | m,p-Xylenes | Naphthalene | n-Butylbenzene | n-Propylbenzene | o-Xylene | p-Isopropyltoluene | Tetrachloroethene | Toluene | TPH-GRO | Xylenes (total) |
| SCI-26B (12/21/15) 4-8 ft | | | <0.0046 | <0.0046 | <0.0091 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.455 | <0.0046 |
| SCI-27A (12/21/15) 0-3 ft | | | <0.0044 | <0.0044 | <0.0088 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.441 | <0.0044 |
| SCI-27B (12/21/15) 16-20 ft | | | <0.0044 | <0.0044 | <0.0088 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.441 | <0.0044 |
| SCI-27D (12/21/15) 16-20 ft | | | <0.0041 | <0.0041 | <0.0081 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.407 | <0.0041 |
| SCI-28A (12/21/15) 0-3 ft | | | <0.0047 | <0.0047 | <0.0093 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.467 | <0.0047 |
| SCI-28B (12/21/15) 16-20 ft | | | <0.0045 | <0.0045 | <0.009 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.451 | <0.0045 |
| SCI-29A (12/21/15) 0-3 ft | | | <0.0045 | <0.0045 | <0.009 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0009 | <0.451 | <0.0045 |
| SCI-29B (12/21/15) 4-8 ft | | | <0.0046 | <0.0046 | <0.0092 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.457 | <0.0046 |
| SCI-30A (12/22/15) 0-3 ft | | | <0.0047 | <0.0047 | <0.0093 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.466 | <0.0047 |
| SCI-30B (12/22/15) 16-20 ft | | | <0.0045 | <0.0045 | <0.0091 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.453 | <0.0045 |
| SCI-30D (12/22/15) 16-20 ft | | | <0.0044 | <0.0044 | <0.0088 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.440 | <0.0044 |
| SCI-31A (12/22/15) 0-3 ft | | | <0.0041 | <0.0041 | <0.0083 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.414 | <0.0041 |
| SCI-31B (12/22/15) 16-20 ft | | | <0.0045 | <0.0045 | <0.009 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.450 | <0.0045 |
| SCI-32A (12/22/15) 0-3 ft | | | <0.0043 | <0.0043 | <0.0086 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.430 | <0.0043 |
| SCI-32B (12/22/15) 16-20 ft | | | <0.0045 | <0.0045 | <0.0089 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.447 | <0.0045 |
| SCI-33A (12/22/15) 0-3 ft | | | <0.0049 | <0.0049 | <0.0098 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.487 | <0.0049 |
| SCI-33B (12/22/15) 16-20 ft | | | <0.0044 | <0.0044 | <0.0087 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.436 | <0.0044 |
| SCI-34A (12/22/15) 0-3 ft | | | <0.0062 | <0.0062 | <0.0034 | <0.0062 | <0.0062 | <0.0062 | <0.0062 | <0.0062 | <0.0062 | <0.620 | <0.0062 |
| SCI-34B (12/22/15) 16-20 ft | | | <0.0043 | <0.0043 | <0.0086 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.431 | <0.0043 |
| SCI-34D (12/22/15) 16-20 ft | | | <0.0043 | <0.0043 | <0.0086 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.320 | <0.0043 |
| SCI-35A (12/22/15) 0-3 ft | | | <0.0044 | <0.0044 | <0.0089 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.444 | <0.0044 |
| SCI-35B (12/22/15) 16-20 ft | | | <0.0042 | <0.0042 | <0.0084 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.418 | <0.0042 |
| SCI-36A (12/22/15)0-3 ft | | | <0.005 | <0.005 | <0.0099 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.496 | <0.005 |
| SCI-36B (12/22/15) 16-20 ft | | | <0.0043 | <0.0043 | <0.0086 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.429 | <0.0043 |
| **Default Target Levels (DTLs)** | | | **39.9** | **24.7** | **0.325** | **41.6** | **13** | **24.7** | **271** | **0.141** | **29.8** | **385** | **24.7** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **7,450** | **7,830** | **36.3** | **2730** | **2,730** | **7,830** | **20,500** | **11.8** | **6,210** | **354,000** | **7,830** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **193** | **24.7** | **25.9** | **118** | **39.9** | **24.7** | **1,100** | **0.3** | **499** | **385** | **24.7** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface (0-3 ft)** | **Cumulative[4]** | **97,500** | **104,000** | **119** | **35,900** | **35,900** | **104,000** | **269,000** | **52.7** | **81,100** | **4,650,000** | **104,000** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **1,550** | **199** | **136** | **946** | **321** | **199** | **8,820** | **1.57** | **4,010** | **3,100** | **199** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **58,100** | **7,210** | **215** | **9,260** | **9,260** | **7,210** | **69,400** | **2560** | **138,000** | **90,600** | **7,210** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents.

**Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)**

| Sample ID (date) / Chemical | | | VOCs | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ethylbenzene | m,p-Xylenes | Naphthalene | n-Butylbenzene | n-Propylbenzene | o-Xylene | p-Isopropyltoluene | Tetrachloroethene | Toluene | TPH-GRO | Xylenes (total) |
| SCI-37A (12/22/15) 0-3 ft | | | <0.0046 | <0.0046 | <0.0092 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.200 | <0.0046 |
| SCI-37B (12/22/15) 16-20 ft | | | <0.0048 | <0.0048 | <0.0096 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.481 | <0.0048 |
| SCI-38A (12/22/15) 0-3 ft | | | <0.0045 | <0.0045 | <0.0091 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.454 | <0.0045 |
| SCI-38B (12/22/15) 16-20 ft | | | <0.0044 | <0.0044 | <0.0087 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.436 | <0.0044 |
| SCI-39A (12/22/15) 0-3 ft | | | <0.0045 | <0.0045 | <0.0089 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.447 | <0.0045 |
| SCI-39B (12/22/15) 16-20 ft | | | <0.0048 | <0.0048 | <0.0095 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.476 | <0.0048 |
| SCI-40A (1/11/16) 0-3 ft | | | <0.0048 | <0.0048 | <0.0097 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | 0.483 | <0.0048 |
| SCI-40B (1/11/16) 15-20 ft | | | <0.0046 | <0.0046 | <0.0093 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.463 | <0.0013 |
| SCI-40D (1/11/16) 15-20 ft | | | <0.0047 | <0.0047 | <0.0093 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.466 | <0.0014 |
| SCI-41A (1/11/16) 0-3 ft | | | <0.133 | <0.133 | <0.267 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <0.133 | <13.3 | <0.038 |
| SCI-41B (1/11/16) 15-20 ft | | | <0.0047 | <0.0047 | <0.0094 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.472 | <0.0047 |
| SCI-42A (1/11/16) 0-3 ft | | | <0.0044 | <0.0044 | <0.0089 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.444 | <0.0044 |
| SCI-42B (1/11/16) 15-20 ft | | | <0.0046 | <0.0046 | <0.0092 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.457 | <0.0013 |
| SCI-43A (1/11/16) 0-3 ft | | | <0.0044 | <0.0044 | <0.0088 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.438 | <0.0044 |
| SCI-43B (1/11/16) 15-20 ft | | | <0.0049 | <0.0049 | <0.0097 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.486 | <0.0049 |
| SCI-44A (1/11/16) 0-3 ft | | | <0.0044 | <0.0044 | <0.0088 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.441 | <0.0044 |
| SCI-44B (1/11/16) 15-20 ft | | | <0.0044 | <0.0044 | <0.0089 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.445 | <0.0013 |
| SCI-45A (1/11/16) 0-3 ft | | | <0.0052 | <0.0052 | <0.0105 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.523 | <0.0052 |
| SCI-45B (1/11/16) 15-20 ft | | | <0.0047 | <0.0047 | <0.0094 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.469 | <0.0047 |
| SCI-46A (1/11/16) 0-3 ft | | | <0.0605 | <0.032 | <0.072 | <0.016 | <0.019 | <0.036 | <0.0605 | <0.0605 | <0.0605 | 7 | 0.0676 |
| SCI-46B (1/11/16) 15-20 ft | | | <0.0042 | <0.0009 | <0.0084 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.421 | <0.0009 |
| SCI-47A (1/12/16) 0-3 ft | | | <0.0049 | <0.0049 | <0.0097 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.487 | <0.0049 |
| SCI-47B (1/12/16) 15-20 ft | | | <0.0045 | <0.0045 | <0.0009 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.452 | <0.0045 |
| SCI-47D (1/12/16) 15-20 ft | | | <0.0043 | <0.0043 | <0.0087 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.434 | <0.0043 |
| **Default Target Levels (DTLs)** | | | **39.9** | **24.7** | **0.325** | **41.6** | **13** | **24.7** | **271** | **0.141** | **29.8** | **385** | **24.7** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **7,450** | **7,830** | **36.3** | **2730** | **2,730** | **7,830** | **20,500** | **11.8** | **6,210** | **354,000** | **7,830** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **193** | **24.7** | **25.9** | **118** | **39.9** | **24.7** | **1,100** | **0.3** | **499** | **385** | **24.7** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface (0-3 ft)** | **Cumulative[4]** | **97,500** | **104,000** | **119** | **35,900** | **35,900** | **104,000** | **269,000** | **52.7** | **81,100** | **4,650,000** | **104,000** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **1,550** | **199** | **136** | **946** | **321** | **199** | **8,820** | **1.57** | **4,010** | **3,100** | **199** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **58,100** | **7,210** | **215** | **9,260** | **9,260** | **7,210** | **69,400** | **2560** | **138,000** | **90,600** | **7,210** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents.

## Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)

| Sample ID (date) / Chemical | | | VOCs | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ethylbenzene | m,p-Xylenes | Naphthalene | n-Butylbenzene | n-Propylbenzene | o-Xylene | p-Isopropyltoluene | Tetrachloroethene | Toluene | TPH-GRO | Xylenes (total) |
| SCI-48A (1/12/16) 0-3 ft | | | <0.0048 | <0.0048 | <0.0096 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.481 | <0.0048 |
| SCI-48B (1/12/16) 15-20 ft | | | <0.0048 | <0.0048 | <0.0096 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.0048 | <0.482 | <0.0048 |
| SCI-49A (1/12/16) 0-3 ft | | | <0.0047 | <0.0047 | <0.0095 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.474 | <0.0047 |
| SCI-49B (1/12/16) 15-20 ft | | | <0.0046 | <0.0046 | <0.0092 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.458 | <0.0046 |
| SCI-50A (1/12/16) 0-3 ft | | | <0.0047 | <0.0047 | <0.0094 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.470 | <0.0047 |
| SCI-50B (1/12/16) 15-20 ft | | | <0.0045 | <0.0045 | <0.009 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.453 | <0.0045 |
| SCI-51A (1/12/16) 0-3 ft | | | <0.0046 | <0.0046 | <0.0092 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.458 | <0.0046 |
| SCI-51B (1/12/16) 15-20 ft | | | <0.0044 | <0.0044 | <0.0088 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.440 | <0.0044 |
| SCI-52A (1/12/16) 0-3 ft | | | <0.0044 | <0.0044 | <0.0087 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.436 | <0.0044 |
| SCI-52B (1/12/16) 10-15 ft | | | <0.0046 | <0.0046 | <0.0093 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.464 | <0.0046 |
| SCI-53A (1/12/16) 0-3 ft | | | <0.0049 | <0.0049 | <0.0098 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.492 | <0.0049 |
| SCI-53B (1/12/16) 15-20 ft | | | <0.0045 | <0.0045 | <0.009 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.451 | <0.0045 |
| SCI-54A (1/12/16) 0-3 ft | | | <0.0042 | <0.0042 | <0.0085 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.425 | <0.0042 |
| SCI-54B (1/12/16) 15-20 ft | | | <0.0047 | <0.0047 | <0.0095 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.475 | <0.0047 |
| SCI-54D (1/12/16) 15-20 ft | | | <0.0046 | <0.0046 | <0.0091 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.457 | <0.0046 |
| SCI-55A (1/12/16) 0-3 ft | | | <0.0042 | <0.0042 | <0.0085 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | <0.424 | <0.0042 |
| SCI-55B (1/12/16) 15-20 ft | | | <0.0046 | <0.0046 | <0.0093 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.464 | <0.0046 |
| SCI-57A (1/12/16) 0-3 ft | | | <0.0051 | <0.0051 | <0.0102 | <0.0051 | <0.0051 | <0.0051 | <0.0051 | <0.0051 | <0.0051 | <0.510 | <0.0051 |
| SCI-57B (1/12/16) 15-20 ft | | | <0.0045 | <0.0045 | <0.009 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.452 | <0.0045 |
| SCI-58A (1/12/16) 0-3 ft | | | <0.0041 | <0.0041 | <0.0083 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.413 | <0.0041 |
| SCI-58B (1/12/16) 10-15 ft | | | <0.0041 | <0.0041 | <0.0083 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.413 | <0.0041 |
| SCI-59A (1/12/16) 0-3 ft | | | <0.0041 | <0.0041 | <0.0083 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.414 | <0.0041 |
| SCI-59B (1/12/16) 15-20 ft | | | <0.0044 | <0.0044 | <0.0087 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.437 | <0.0044 |
| SCI-61A (1/13/16) 0-3 ft | | | <0.004 | <0.004 | <0.008 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.397 | <0.004 |
| **Default Target Levels (DTLs)** | | | **39.9** | **24.7** | **0.325** | **41.6** | **13** | **24.7** | **271** | **0.141** | **29.8** | **385** | **24.7** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **7,450** | **7,830** | **36.3** | **2730** | **2,730** | **7,830** | **20,500** | **11.8** | **6,210** | **354,000** | **7,830** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **193** | **24.7** | **25.9** | **118** | **39.9** | **24.7** | **1,100** | **0.3** | **499** | **385** | **24.7** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface (0-3 ft)** | **Cumulative[4]** | **97,500** | **104,000** | **119** | **35,900** | **35,900** | **104,000** | **269,000** | **52.7** | **81,100** | **4,650,000** | **104,000** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **1,550** | **199** | **136** | **946** | **321** | **199** | **8,820** | **1.57** | **4,010** | **3,100** | **199** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **58,100** | **7,210** | **215** | **9,260** | **9,260** | **7,210** | **69,400** | **2560** | **138,000** | **90,600** | **7,210** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents.

**Table 1 – Analytical Test Results of Detected Analytes - Soil (continued)**

| Sample ID (date) / Chemical | | | VOCs | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ethylbenzene | m,p-Xylenes | Naphthalene | n-Butylbenzene | n-Propylbenzene | o-Xylene | p-Isopropyltoluene | Tetrachloroethene | Toluene | TPH-GRO | Xylenes (total) |
| SCI-61B (1/13/16) 15-20 ft | | | <0.0045 | <0.0045 | <0.0091 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.454 | <0.0045 |
| SCI-63A (1/13/16) 0-3 ft | | | <0.0049 | <0.0049 | <0.0098 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.0049 | <0.492 | <0.0049 |
| SCI-63B (1/13/16) 15-20 ft | | | <0.0041 | <0.0041 | <0.0082 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.407 | <0.0041 |
| SCI-64A (1/13/16) 0-3 ft | | | <0.0041 | <0.0041 | <0.0083 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.413 | <0.0041 |
| SCI-64B (1/13/16) 15-20 ft | | | <0.150 | <0.243 | **1.470** | 0.605 | 0.327 | <0.067 | <0.160 | <0.243 | <0.243 | <17.000 | <0.067 |
| SCI-65A (1/13/16) 0-3 ft | | | <0.0043 | <0.0043 | <0.0085 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.427 | <0.0043 |
| SCI-65B (1/13/16) 15-20 ft | | | <0.0052 | <0.0052 | <0.0105 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.0014 | <0.0052 | <0.524 | <0.0052 |
| SCI-66A (1/13/16) 0-3 ft | | | <0.0052 | <0.0052 | <0.0103 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.0052 | <0.516 | <0.0052 |
| SCI-66B (1/13/16) 10-15 ft | | | <0.0045 | <0.0045 | <0.0022 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.0045 | <0.446 | <0.0045 |
| SCI-67A (1/13/16) 0-3 ft | | | <0.0047 | <0.0047 | <0.0094 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.471 | <0.0047 |
| SCI-67B (1/13/16) 15-20 ft | | | <0.0047 | <0.0047 | <0.0094 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.471 | <0.0047 |
| SCI-67D (1/13/16) 15-20 ft | | | <0.0046 | <0.0046 | <0.0092 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.461 | <0.0046 |
| SCI-68A (1/13/16) 0-3 ft | | | <0.0044 | <0.0044 | <0.0088 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.440 | <0.0044 |
| SCI-68B (1/13/16) 15-20 ft | | | <0.0044 | <0.0044 | <0.0089 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.445 | <0.0044 |
| SCI-69A (1/13/16) 0-3 ft | | | <0.0046 | <0.0046 | <0.0091 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0011 | <0.0046 | <0.457 | <0.0046 |
| SCI-69B (1/13/16) 15-20 ft | | | <0.0042 | <0.0042 | <0.0085 | <0.0042 | <0.0042 | <0.0042 | <0.0042 | 0.0161 | <0.0042 | <0.424 | <0.0042 |
| SCI-70A (1/13/16) 0-3 ft | | | <0.0041 | <0.0041 | <0.0082 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.0041 | <0.411 | <0.0041 |
| SCI-70B (1/13/16) 15-20 ft | | | <0.0044 | <0.0044 | <0.0089 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.445 | <0.0044 |
| SCI-70D (1/13/16) 15-20 ft | | | <0.0046 | <0.0046 | <0.0092 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.458 | <0.0046 |
| SCI-71A (1/13/16) 0-3 ft | | | <0.0047 | <0.0047 | <0.0094 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.471 | <0.0047 |
| SCI-71B (1/13/16) 15-20 ft | | | <0.0046 | <0.0046 | <0.0092 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.458 | <0.0046 |
| SCI-75A (1/13/16) 0-3 ft | | | <0.0043 | <0.0043 | <0.0085 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.0043 | <0.426 | <0.0043 |
| SCI-75B (1/13/16) 15-20 ft | | | <0.0044 | <0.0044 | <0.0088 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.0044 | <0.442 | <0.0044 |
| SCI-77A (1/13/16) 0-3 ft | | | <0.0046 | <0.0029 | <0.0093 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0046 | <0.0017 | <0.463 | <0.0029 |
| SCI-77B (1/13/16) 15-20 ft | | | <0.0047 | <0.0047 | <0.0095 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.0047 | <0.474 | <0.0047 |
| **Default Target Levels (DTLs)** | | | **39.9** | **24.7** | **0.325** | **41.6** | **13** | **24.7** | **271** | **0.141** | **29.8** | **385** | **24.7** |
| **Tier One, Soil Type 1, Residential[1]** | **Surface (0-3 ft)** | **Cumulative[4]** | **7,450** | **7,830** | **36.3** | **2730** | **2,730** | **7,830** | **20,500** | **11.8** | **6,210** | **354,000** | **7,830** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **193** | **24.7** | **25.9** | **118** | **39.9** | **24.7** | **1,100** | **0.3** | **499** | **385** | **24.7** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Surface (0-3 ft)** | **Cumulative[4]** | **97,500** | **104,000** | **119** | **35,900** | **35,900** | **104,000** | **269,000** | **52.7** | **81,100** | **4,650,000** | **104,000** |
| | **Subsurface (> 3 ft)** | **Indoor Inhalation** | **1,550** | **199** | **136** | **946** | **321** | **199** | **8,820** | **1.57** | **4,010** | **3,100** | **199** |
| **Tier One, Soil Type 1, Construction[3]** | | **Cumulative[4]** | **58,100** | **7,210** | **215** | **9,260** | **9,260** | **7,210** | **69,400** | **2560** | **138,000** | **90,600** | **7,210** |

Notes: All results are reported in mg/kg or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed Residential RBTLs.
Outlined cells exceed Non-Residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Ingestion, inhalation and dermal contact.
[5]Not analyzed.
[6]Maximum background concentration in St. Louis City, as reported by the U.S. Geochemical Survey
[7]Target levels not established for some constituents.

December 23, 2015

Ben Butterfield
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301
TEL: (618) 206-3028
FAX: (636) 949-8269

**RE:** NGA 2015-0461.21 **WorkOrder:** 15121344

Dear Ben Butterfield:

TEKLAB, INC received 19 samples on 12/17/2015 5:10:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Project Manager
(618)344-1004 ex 16
MAustin@teklabinc.com

# Report Contents

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344
**Report Date:** 23-Dec-15

**This reporting package includes the following:**


| | |
|---|---|
| Cover Letter | 1 |
| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 4 |
| Laboratory Results | 5 |
| Quality Control Results | 62 |
| Receiving Check List | 102 |
| Chain of Custody | Appended |

# Definitions

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

## Abbr Definition

| | |
|---|---|
| CCV | Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration. |
| DF | Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors. |
| DNI | Did not ignite |
| DUP | Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. |
| ICV | Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated. |
| IDPH | IL Dept. of Public Health |
| LCS | Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request). |
| LCSD | Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MBLK | Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses. |
| MDL | Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. |
| MS | Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MSD | Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MW | Molecular weight |
| ND | Not Detected at the Reporting Limit |
| NELAP | NELAP Accredited |
| PQL | Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request). |
| RL | The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL. |
| RPD | Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request). |
| SPK | The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. |
| Surr | Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. |
| TIC | Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET" |
| TNTC | Too numerous to count ( > 200 CFU ) |

## Qualifiers

| | | | |
|---|---|---|---|
| # - | Unknown hydrocarbon | B - | Analyte detected in associated Method Blank |
| E - | Value above quantitation range | H - | Holding times exceeded |
| I - | Associated internal standard was outside method criteria | J - | Analyte detected below quantitation limits |
| M - | Manual Integration used to determine area response | ND - | Not Detected at the Reporting Limit |
| R - | RPD outside accepted recovery limits | S - | Spike Recovery outside recovery limits |
| T - | TIC(Tentatively identified compound) | X - | Value exceeds Maximum Contaminant Level |

# Case Narrative

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344

**Report Date:** 23-Dec-15

**Cooler Receipt Temp:** 5.82 °C

## Locations and Accreditations

| | Collinsville | Springfield | Kansas City | Collinsville Air |
|---|---|---|---|---|
| Address | 5445 Horseshoe Lake Road | 3920 Pintail Dr | 8421 Nieman Road | 5445 Horseshoe Lake Road |
| | Collinsville, IL 62234-7425 | Springfield, IL 62711-9415 | Lenexa, KS 66214 | Collinsville, IL 62234-7425 |
| Phone | (618) 344-1004 | (217) 698-1004 | (913) 541-1998 | (618) 344-1004 |
| Fax | (618) 344-1005 | (217) 698-1005 | (913) 541-1998 | (618) 344-1005 |
| Email | jhriley@teklabinc.com | KKlostermann@teklabinc.com | dthompson@teklabinc.com | EHurley@teklabinc.com |

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|---|---|---|---|---|---|
| Illinois | IEPA | 100226 | NELAP | 1/31/2017 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 1/31/2016 | Collinsville |
| Louisiana | LDEQ | 166493 | NELAP | 6/30/2016 | Collinsville |
| Louisiana | LDEQ | 166578 | NELAP | 6/30/2016 | Collinsville |
| Texas | TCEQ | T104704515-12-1 | NELAP | 7/31/2016 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2016 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2017 | Collinsville |
| Kentucky | KDEP | 98006 | | 12/31/2015 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2016 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2017 | Collinsville |
| Oklahoma | ODEQ | 9978 | | 8/31/2016 | Collinsville |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-001
**Client Sample ID:** SCI-1A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 9:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **15.9** | % | 1 | 12/21/2015 20:08 | R212974 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **12.8** | mg/Kg-dry | 1 | 12/22/2015 12:39 | 115115 |
| Barium | NELAP | 0.23 | | **194** | mg/Kg-dry | 1 | 12/22/2015 12:39 | 115115 |
| Cadmium | NELAP | 0.18 | | **0.72** | mg/Kg-dry | 1 | 12/22/2015 12:39 | 115115 |
| Chromium | NELAP | 0.45 | | **21.0** | mg/Kg-dry | 1 | 12/22/2015 12:39 | 115115 |
| Lead | NELAP | 1.36 | | **329** | mg/Kg-dry | 1 | 12/22/2015 12:39 | 115115 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 12/22/2015 12:39 | 115115 |
| Silver | NELAP | 0.45 | | **9.22** | mg/Kg-dry | 1 | 12/22/2015 12:39 | 115115 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.372** | mg/Kg-dry | 1 | 12/22/2015 10:26 | 115122 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0403 | | **0.0419** | mg/Kg-dry | 1 | 12/22/2015 2:15 | 115104 |
| Anthracene | NELAP | 0.0403 | | **0.122** | mg/Kg-dry | 1 | 12/22/2015 2:15 | 115104 |
| Benzo(a)anthracene | NELAP | 0.0403 | | **0.582** | mg/Kg-dry | 1 | 12/22/2015 2:15 | 115104 |
| Benzo(a)pyrene | NELAP | 0.0403 | | **0.548** | mg/Kg-dry | 1 | 12/22/2015 2:15 | 115104 |
| Benzo(b)fluoranthene | NELAP | 0.0403 | | **0.720** | mg/Kg-dry | 1 | 12/22/2015 2:15 | 115104 |
| Benzo(k)fluoranthene | NELAP | 0.0403 | | **0.300** | mg/Kg-dry | 1 | 12/22/2015 2:15 | 115104 |
| Chrysene | NELAP | 0.0403 | | **0.574** | mg/Kg-dry | 1 | 12/22/2015 2:15 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 0.0403 | | **0.0612** | mg/Kg-dry | 1 | 12/22/2015 2:15 | 115104 |
| Fluoranthene | NELAP | 0.0403 | | **1.17** | mg/Kg-dry | 1 | 12/22/2015 2:15 | 115104 |
| Fluorene | NELAP | 0.0403 | J | **0.029** | mg/Kg-dry | 1 | 12/22/2015 2:15 | 115104 |
| Pyrene | NELAP | 0.0403 | | **1.06** | mg/Kg-dry | 1 | 12/22/2015 2:15 | 115104 |
| TPH-DRO (C10 - C21) | | 14.2 | J | **13** | mg/Kg-dry | 1 | 12/22/2015 2:15 | 115104 |
| TPH-ORO (C21 - C35) | | 14.2 | | **59.5** | mg/Kg-dry | 1 | 12/22/2015 2:15 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **74.1** | %REC | 1 | 12/22/2015 2:15 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **71.9** | %REC | 1 | 12/22/2015 2:15 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **91.5** | %REC | 1 | 12/22/2015 2:15 | 115104 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,1,1-Trichloroethane | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,1,2-Trichloroethane | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,1-Dichloro-2-propanone | | 56.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,1-Dichloroethane | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,1-Dichloroethene | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,1-Dichloropropene | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,2,3-Trichlorobenzene | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,2,3-Trichloropropane | NELAP | 11.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,2,3-Trimethylbenzene | | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,2,4-Trichlorobenzene | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,2,4-Trimethylbenzene | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,2-Dibromoethane | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,2-Dichlorobenzene | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,2-Dichloroethane | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-001
**Client Sample ID:** SCI-1A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 9:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,3,5-Trimethylbenzene | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,3-Dichlorobenzene | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,3-Dichloropropane | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1,4-Dichlorobenzene | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 1-Chlorobutane | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 2,2-Dichloropropane | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 2-Butanone | NELAP | 56.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 2-Chlorotoluene | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 2-Hexanone | NELAP | 56.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 2-Nitropropane | NELAP | 56.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 4-Chlorotoluene | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| 4-Methyl-2-pentanone | NELAP | 56.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Acetone | NELAP | 56.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Acetonitrile | NELAP | 112 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Acrolein | NELAP | 112 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Acrylonitrile | NELAP | 11.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Allyl chloride | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Benzene | NELAP | 1.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Bromobenzene | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Bromochloromethane | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Bromodichloromethane | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Bromoform | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Bromomethane | NELAP | 11.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Carbon disulfide | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Carbon tetrachloride | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Chlorobenzene | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Chloroethane | NELAP | 11.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Chloroform | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Chloromethane | NELAP | 11.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| cis-1,2-Dichloroethene | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| cis-1,3-Dichloropropene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Cyclohexanone | | 112 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Dibromochloromethane | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Dibromomethane | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Dichlorodifluoromethane | NELAP | 11.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Diisopropyl ether | | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Ethyl ether | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Ethyl methacrylate | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Ethylbenzene | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Ethyl-tert-butyl ether | | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Hexachlorobutadiene | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Hexachloroethane | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Iodomethane | NELAP | 11.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Isopropylbenzene | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| m,p-Xylenes | NELAP | 5.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Methacrylonitrile | NELAP | 56.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-001
**Client Sample ID:** SCI-1A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 9:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Methyl tert-butyl ether | NELAP | 2.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Methylacrylate | NELAP | 11.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Methylene chloride | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Naphthalene | NELAP | 11.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| n-Butylbenzene | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| n-Heptane | | 22.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| n-Hexane | | 22.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Nitrobenzene | NELAP | 112 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| n-Propylbenzene | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| o-Xylene | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Pentachloroethane | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| p-Isopropyltoluene | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Propionitrile | NELAP | 56.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| sec-Butylbenzene | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Styrene | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| tert-Amyl methyl ether | | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| tert-Butyl alcohol | NELAP | 56.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| tert-Butylbenzene | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Tetrachloroethene | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Tetrahydrofuran | NELAP | 56.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Toluene | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| TPH - GRO (C6 - C10) | | 561 | J | **340** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| trans-1,2-Dichloroethene | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| trans-1,3-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| trans-1,4-Dichloro-2-butene | NELAP | 11.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Trichloroethene | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Trichlorofluoromethane | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Vinyl acetate | NELAP | 56.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Vinyl chloride | NELAP | 2.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Xylenes, Total | NELAP | 5.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 13:09 | 115107 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.1** | %REC | 1 | 12/21/2015 13:09 | 115107 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | S | **118.2** | %REC | 1 | 12/21/2015 13:09 | 115107 |
| Surr: Toluene-d8 | | 86-116 | | **109.4** | %REC | 1 | 12/21/2015 13:09 | 115107 |

*Surrogate recovery is outside QC limits due to matrix interference.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121344-002
**Matrix:** SOLID

**Work Order:** 15121344
**Report Date:** 23-Dec-15
**Client Sample ID:** SCI-1B (12-16)
**Collection Date:** 12/17/2015 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **25.6** | % | 1 | 12/21/2015 20:08 | R212974 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **4.28** | mg/Kg-dry | 1 | 12/22/2015 12:43 | 115115 |
| Barium | NELAP | 0.24 | | **157** | mg/Kg-dry | 1 | 12/22/2015 12:43 | 115115 |
| Cadmium | NELAP | 0.19 | | **0.25** | mg/Kg-dry | 1 | 12/22/2015 12:43 | 115115 |
| Chromium | NELAP | 0.47 | | **18.1** | mg/Kg-dry | 1 | 12/22/2015 12:43 | 115115 |
| Lead | NELAP | 1.42 | | **23.1** | mg/Kg-dry | 1 | 12/22/2015 12:43 | 115115 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/22/2015 12:43 | 115115 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 12/22/2015 12:43 | 115115 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.060** | mg/Kg-dry | 1 | 12/22/2015 10:33 | 115122 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0453 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 0:15 | 115104 |
| Anthracene | NELAP | 0.0453 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 0:15 | 115104 |
| Benzo(a)anthracene | NELAP | 0.0453 | J | **0.036** | mg/Kg-dry | 1 | 12/22/2015 0:15 | 115104 |
| Benzo(a)pyrene | NELAP | 0.0453 | J | **0.033** | mg/Kg-dry | 1 | 12/22/2015 0:15 | 115104 |
| Benzo(b)fluoranthene | NELAP | 0.0453 | J | **0.044** | mg/Kg-dry | 1 | 12/22/2015 0:15 | 115104 |
| Benzo(k)fluoranthene | NELAP | 0.0453 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 0:15 | 115104 |
| Chrysene | NELAP | 0.0453 | J | **0.028** | mg/Kg-dry | 1 | 12/22/2015 0:15 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 0.0453 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 0:15 | 115104 |
| Fluoranthene | NELAP | 0.0453 | | **0.0547** | mg/Kg-dry | 1 | 12/22/2015 0:15 | 115104 |
| Fluorene | NELAP | 0.0453 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 0:15 | 115104 |
| Pyrene | NELAP | 0.0453 | | **0.0800** | mg/Kg-dry | 1 | 12/22/2015 0:15 | 115104 |
| TPH-DRO (C10 - C21) | | 16.0 | J | **11** | mg/Kg-dry | 1 | 12/22/2015 0:15 | 115104 |
| TPH-ORO (C21 - C35) | | 16.0 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 0:15 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **70.2** | %REC | 1 | 12/22/2015 0:15 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.3** | %REC | 1 | 12/22/2015 0:15 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **82.6** | %REC | 1 | 12/22/2015 0:15 | 115104 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,1,1-Trichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,1,2-Trichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,1-Dichloro-2-propanone | | 52.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,1-Dichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,1-Dichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,1-Dichloropropene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,2,3-Trichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,2,3-Trichloropropane | NELAP | 10.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,2,3-Trimethylbenzene | | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,2,4-Trichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,2,4-Trimethylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,2-Dibromoethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,2-Dichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,2-Dichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-002
**Client Sample ID:** SCI-1B (12-16)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,3,5-Trimethylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,3-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,3-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1,4-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 1-Chlorobutane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 2,2-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 2-Butanone | NELAP | 52.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 2-Chlorotoluene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 2-Hexanone | NELAP | 52.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 2-Nitropropane | NELAP | 52.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 4-Chlorotoluene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| 4-Methyl-2-pentanone | NELAP | 52.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Acetone | NELAP | 52.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Acetonitrile | NELAP | 104 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Acrolein | NELAP | 104 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Acrylonitrile | NELAP | 10.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Allyl chloride | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Bromobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Bromochloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Bromodichloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Bromoform | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Bromomethane | NELAP | 10.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Carbon disulfide | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Carbon tetrachloride | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Chlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Chloroethane | NELAP | 10.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Chloroform | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Chloromethane | NELAP | 10.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| cis-1,2-Dichloroethene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| cis-1,3-Dichloropropene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Cyclohexanone | | 104 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Dibromochloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Dibromomethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Dichlorodifluoromethane | NELAP | 10.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Diisopropyl ether | | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Ethyl ether | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Ethyl methacrylate | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Ethylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Ethyl-tert-butyl ether | | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Hexachlorobutadiene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Hexachloroethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Iodomethane | NELAP | 10.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Isopropylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| m,p-Xylenes | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Methacrylonitrile | NELAP | 52.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-002
**Client Sample ID:** SCI-1B (12-16)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Methyl tert-butyl ether | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Methylacrylate | NELAP | 10.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Methylene chloride | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Naphthalene | NELAP | 10.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| n-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| n-Heptane | | 20.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| n-Hexane | | 20.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Nitrobenzene | NELAP | 104 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| n-Propylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| o-Xylene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Pentachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| p-Isopropyltoluene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Propionitrile | NELAP | 52.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| sec-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Styrene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| tert-Amyl methyl ether | | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| tert-Butyl alcohol | NELAP | 52.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| tert-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Tetrachloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Tetrahydrofuran | NELAP | 52.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Toluene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| TPH - GRO (C6 - C10) | | 521 | J | **250** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| trans-1,2-Dichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| trans-1,3-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Trichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Trichlorofluoromethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Vinyl acetate | NELAP | 52.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Vinyl chloride | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Xylenes, Total | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:46 | 115071 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.9** | %REC | 1 | 12/18/2015 13:46 | 115071 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.9** | %REC | 1 | 12/18/2015 13:46 | 115071 |
| Surr: Toluene-d8 | | 86-116 | | **101.1** | %REC | 1 | 12/18/2015 13:46 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-003
**Client Sample ID:** SCI-2A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 9:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.7** | % | 1 | 12/21/2015 20:08 | R212974 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **13.5** | mg/Kg-dry | 1 | 12/22/2015 12:47 | 115115 |
| Barium | NELAP | 0.25 | | **252** | mg/Kg-dry | 1 | 12/22/2015 12:47 | 115115 |
| Cadmium | NELAP | 0.20 | | **0.92** | mg/Kg-dry | 1 | 12/22/2015 12:47 | 115115 |
| Chromium | NELAP | 0.50 | | **25.6** | mg/Kg-dry | 1 | 12/22/2015 12:47 | 115115 |
| Lead | NELAP | 1.50 | | **189** | mg/Kg-dry | 1 | 12/22/2015 12:47 | 115115 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/22/2015 12:47 | 115115 |
| Silver | NELAP | 0.50 | | **9.58** | mg/Kg-dry | 1 | 12/22/2015 12:47 | 115115 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.121 | | **1.34** | mg/Kg-dry | 10 | 12/22/2015 12:38 | 115122 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.621 | J | **0.39** | mg/Kg-dry | 5 | 12/22/2015 4:44 | 115104 |
| Anthracene | NELAP | 0.621 | | **1.67** | mg/Kg-dry | 5 | 12/22/2015 4:44 | 115104 |
| Benzo(a)anthracene | NELAP | 0.621 | | **7.86** | mg/Kg-dry | 5 | 12/22/2015 4:44 | 115104 |
| Benzo(a)pyrene | NELAP | 0.621 | | **7.63** | mg/Kg-dry | 5 | 12/22/2015 4:44 | 115104 |
| Benzo(b)fluoranthene | NELAP | 0.621 | | **11.1** | mg/Kg-dry | 5 | 12/22/2015 4:44 | 115104 |
| Benzo(k)fluoranthene | NELAP | 0.621 | | **3.75** | mg/Kg-dry | 5 | 12/22/2015 4:44 | 115104 |
| Chrysene | NELAP | 0.621 | | **7.79** | mg/Kg-dry | 5 | 12/22/2015 4:44 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 0.621 | | **0.700** | mg/Kg-dry | 5 | 12/22/2015 4:44 | 115104 |
| Fluoranthene | NELAP | 0.621 | | **14.8** | mg/Kg-dry | 5 | 12/22/2015 4:44 | 115104 |
| Fluorene | NELAP | 0.621 | J | **0.36** | mg/Kg-dry | 5 | 12/22/2015 4:44 | 115104 |
| Pyrene | NELAP | 0.621 | | **14.5** | mg/Kg-dry | 5 | 12/22/2015 4:44 | 115104 |
| TPH-DRO (C10 - C21) | | 219 | J | **130** | mg/Kg-dry | 5 | 12/22/2015 4:44 | 115104 |
| TPH-ORO (C21 - C35) | | 219 | | **251** | mg/Kg-dry | 5 | 12/22/2015 4:44 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **64.2** | %REC | 5 | 12/22/2015 4:44 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **62.4** | %REC | 5 | 12/22/2015 4:44 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **77.9** | %REC | 5 | 12/22/2015 4:44 | 115104 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,1,1-Trichloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,1,2-Trichloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,1-Dichloro-2-propanone | | 57.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,1-Dichloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,1-Dichloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,1-Dichloropropene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,2,3-Trichlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,2,3-Trichloropropane | NELAP | 11.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,2,3-Trimethylbenzene | | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,2,4-Trichlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,2,4-Trimethylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,2-Dibromoethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,2-Dichlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

**Lab ID:** 15121344-003 **Client Sample ID:** SCI-2A (0-3)

**Matrix:** SOLID **Collection Date:** 12/17/2015 9:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,2-Dichloropropane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,3,5-Trimethylbenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,3-Dichlorobenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,3-Dichloropropane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1,4-Dichlorobenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 1-Chlorobutane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 2,2-Dichloropropane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 2-Butanone | NELAP | 57.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 2-Chlorotoluene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 2-Hexanone | NELAP | 57.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 2-Nitropropane | NELAP | 57.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 4-Chlorotoluene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| 4-Methyl-2-pentanone | NELAP | 57.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Acetone | NELAP | 57.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Acetonitrile | NELAP | 116 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Acrolein | NELAP | 116 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Acrylonitrile | NELAP | 11.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Allyl chloride | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Benzene | NELAP | 1.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Bromobenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Bromochloromethane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Bromodichloromethane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Bromoform | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Bromomethane | NELAP | 11.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Carbon disulfide | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Carbon tetrachloride | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Chlorobenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Chloroethane | NELAP | 11.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Chloroform | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Chloromethane | NELAP | 11.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| cis-1,2-Dichloroethene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| cis-1,3-Dichloropropene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Cyclohexanone | | 116 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Dibromochloromethane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Dibromomethane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Dichlorodifluoromethane | NELAP | 11.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Diisopropyl ether | | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Ethyl ether | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Ethyl methacrylate | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Ethylbenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Ethyl-tert-butyl ether | | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Hexachlorobutadiene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Hexachloroethane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Iodomethane | NELAP | 11.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Isopropylbenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| m,p-Xylenes | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-003
**Client Sample ID:** SCI-2A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 9:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 57.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Methyl Methacrylate | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Methyl tert-butyl ether | NELAP | 2.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Methylacrylate | NELAP | 11.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Methylene chloride | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Naphthalene | NELAP | 11.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| n-Butylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| n-Heptane | | 23.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| n-Hexane | | 23.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Nitrobenzene | NELAP | 116 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| n-Propylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| o-Xylene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Pentachloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| p-Isopropyltoluene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Propionitrile | NELAP | 57.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| sec-Butylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Styrene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| tert-Amyl methyl ether | | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| tert-Butyl alcohol | NELAP | 57.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| tert-Butylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Tetrachloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Tetrahydrofuran | NELAP | 57.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Toluene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| TPH - GRO (C6 - C10) | | 579 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| trans-1,2-Dichloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| trans-1,3-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| trans-1,4-Dichloro-2-butene | NELAP | 11.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Trichloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Trichlorofluoromethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Vinyl acetate | NELAP | 57.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Vinyl chloride | NELAP | 2.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Xylenes, Total | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:13 | 115071 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.3** | %REC | 1 | 12/18/2015 14:13 | 115071 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **111.0** | %REC | 1 | 12/18/2015 14:13 | 115071 |
| Surr: Toluene-d8 | | 86-116 | | **105.6** | %REC | 1 | 12/18/2015 14:13 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-004
**Client Sample ID:** SCI-2B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 10:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.5** | % | 1 | 12/21/2015 20:11 | R212974 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **11.2** | mg/Kg-dry | 1 | 12/22/2015 12:50 | 115115 |
| Barium | NELAP | 0.25 | | **187** | mg/Kg-dry | 1 | 12/22/2015 12:50 | 115115 |
| Cadmium | NELAP | 0.20 | | **1.08** | mg/Kg-dry | 1 | 12/22/2015 12:50 | 115115 |
| Chromium | NELAP | 0.50 | | **18.6** | mg/Kg-dry | 1 | 12/22/2015 12:50 | 115115 |
| Lead | NELAP | 1.50 | | **175** | mg/Kg-dry | 1 | 12/22/2015 12:50 | 115115 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/22/2015 12:50 | 115115 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 12/22/2015 12:50 | 115115 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.437** | mg/Kg-dry | 1 | 12/22/2015 10:41 | 115122 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0420 | | **0.234** | mg/Kg-dry | 1 | 12/22/2015 2:44 | 115104 |
| Anthracene | NELAP | 0.0420 | | **0.263** | mg/Kg-dry | 1 | 12/22/2015 2:44 | 115104 |
| Benzo(a)anthracene | NELAP | 0.0420 | | **0.587** | mg/Kg-dry | 1 | 12/22/2015 2:44 | 115104 |
| Benzo(a)pyrene | NELAP | 0.0420 | | **0.529** | mg/Kg-dry | 1 | 12/22/2015 2:44 | 115104 |
| Benzo(b)fluoranthene | NELAP | 0.0420 | | **0.708** | mg/Kg-dry | 1 | 12/22/2015 2:44 | 115104 |
| Benzo(k)fluoranthene | NELAP | 0.0420 | | **0.183** | mg/Kg-dry | 1 | 12/22/2015 2:44 | 115104 |
| Chrysene | NELAP | 0.0420 | | **0.527** | mg/Kg-dry | 1 | 12/22/2015 2:44 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 0.0420 | | **0.0514** | mg/Kg-dry | 1 | 12/22/2015 2:44 | 115104 |
| Fluoranthene | NELAP | 0.0420 | | **1.19** | mg/Kg-dry | 1 | 12/22/2015 2:44 | 115104 |
| Fluorene | NELAP | 0.0420 | | **0.163** | mg/Kg-dry | 1 | 12/22/2015 2:44 | 115104 |
| Pyrene | NELAP | 0.0420 | | **1.17** | mg/Kg-dry | 1 | 12/22/2015 2:44 | 115104 |
| TPH-DRO (C10 - C21) | | 14.8 | | **41.0** | mg/Kg-dry | 1 | 12/22/2015 2:44 | 115104 |
| TPH-ORO (C21 - C35) | | 14.8 | | **44.2** | mg/Kg-dry | 1 | 12/22/2015 2:44 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **68.5** | %REC | 1 | 12/22/2015 2:44 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.7** | %REC | 1 | 12/22/2015 2:44 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **88.6** | %REC | 1 | 12/22/2015 2:44 | 115104 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,1,1-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,1,2-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,1-Dichloro-2-propanone | | 43.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,1-Dichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,1-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,1-Dichloropropene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,2,3-Trichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,2,3-Trichloropropane | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,2,3-Trimethylbenzene | | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,2,4-Trichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,2,4-Trimethylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,2-Dibromoethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,2-Dichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,2-Dichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-004
**Client Sample ID:** SCI-2B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 10:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,3,5-Trimethylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,3-Dichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,3-Dichloropropane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1,4-Dichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 1-Chlorobutane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 2,2-Dichloropropane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 2-Butanone | NELAP | 43.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 2-Chlorotoluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 2-Hexanone | NELAP | 43.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 2-Nitropropane | NELAP | 43.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 4-Chlorotoluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| 4-Methyl-2-pentanone | NELAP | 43.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Acetone | NELAP | 43.0 | J | **12** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Acetonitrile | NELAP | 86.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Acrolein | NELAP | 86.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Acrylonitrile | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Allyl chloride | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Benzene | NELAP | 0.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Bromobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Bromochloromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Bromodichloromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Bromoform | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Bromomethane | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Carbon disulfide | NELAP | 4.3 | J | **2.8** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Carbon tetrachloride | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Chlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Chloroethane | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Chloroform | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Chloromethane | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| cis-1,2-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Cyclohexanone | | 86.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Dibromochloromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Dibromomethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Dichlorodifluoromethane | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Diisopropyl ether | | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Ethyl ether | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Ethyl methacrylate | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Ethylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Ethyl-tert-butyl ether | | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Hexachlorobutadiene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Hexachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Iodomethane | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Isopropylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| m,p-Xylenes | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Methacrylonitrile | NELAP | 43.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

**Lab ID:** 15121344-004 **Client Sample ID:** SCI-2B (16-20)

**Matrix:** SOLID **Collection Date:** 12/17/2015 10:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Methylacrylate | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Methylene chloride | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Naphthalene | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| n-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| n-Heptane | | 17.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| n-Hexane | | 17.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Nitrobenzene | NELAP | 86.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| n-Propylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| o-Xylene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Pentachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| p-Isopropyltoluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Propionitrile | NELAP | 43.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| sec-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Styrene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| tert-Amyl methyl ether | | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| tert-Butyl alcohol | NELAP | 43.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| tert-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Tetrachloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Tetrahydrofuran | NELAP | 43.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Toluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| TPH - GRO (C6 - C10) | | 430 | J | **340** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| trans-1,2-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Trichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Trichlorofluoromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Vinyl acetate | NELAP | 43.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Xylenes, Total | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 14:39 | 115071 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.0** | %REC | 1 | 12/18/2015 14:39 | 115071 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | S | **117.2** | %REC | 1 | 12/18/2015 14:39 | 115071 |
| Surr: Toluene-d8 | | 86-116 | | **111.5** | %REC | 1 | 12/18/2015 14:39 | 115071 |

*Surrogate recovery is outside QC limits due to matrix interference.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-005
**Client Sample ID:** SCI-3A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.8** | % | 1 | 12/21/2015 20:27 | R212974 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **11.6** | mg/Kg-dry | 1 | 12/22/2015 12:54 | 115115 |
| Barium | NELAP | 0.24 | | **190** | mg/Kg-dry | 1 | 12/22/2015 12:54 | 115115 |
| Cadmium | NELAP | 0.19 | | **0.63** | mg/Kg-dry | 1 | 12/22/2015 12:54 | 115115 |
| Chromium | NELAP | 0.48 | | **22.1** | mg/Kg-dry | 1 | 12/22/2015 12:54 | 115115 |
| Lead | NELAP | 1.44 | | **123** | mg/Kg-dry | 1 | 12/22/2015 12:54 | 115115 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/22/2015 12:54 | 115115 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/22/2015 12:54 | 115115 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.379** | mg/Kg-dry | 1 | 12/22/2015 10:44 | 115122 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0419 | | **0.122** | mg/Kg-dry | 1 | 12/22/2015 3:14 | 115104 |
| Anthracene | NELAP | 0.0419 | | **0.392** | mg/Kg-dry | 1 | 12/22/2015 3:14 | 115104 |
| Benzo(a)anthracene | NELAP | 0.0419 | | **1.80** | mg/Kg-dry | 1 | 12/22/2015 3:14 | 115104 |
| Benzo(a)pyrene | NELAP | 0.0419 | | **1.71** | mg/Kg-dry | 1 | 12/22/2015 3:14 | 115104 |
| Benzo(b)fluoranthene | NELAP | 0.0419 | | **2.53** | mg/Kg-dry | 1 | 12/22/2015 3:14 | 115104 |
| Benzo(k)fluoranthene | NELAP | 0.0419 | | **0.735** | mg/Kg-dry | 1 | 12/22/2015 3:14 | 115104 |
| Chrysene | NELAP | 0.0419 | | **1.69** | mg/Kg-dry | 1 | 12/22/2015 3:14 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 0.0419 | | **0.146** | mg/Kg-dry | 1 | 12/22/2015 3:14 | 115104 |
| Fluoranthene | NELAP | 0.0419 | | **3.32** | mg/Kg-dry | 1 | 12/22/2015 3:14 | 115104 |
| Fluorene | NELAP | 0.0419 | | **0.109** | mg/Kg-dry | 1 | 12/22/2015 3:14 | 115104 |
| Pyrene | NELAP | 0.0419 | | **3.11** | mg/Kg-dry | 1 | 12/22/2015 3:14 | 115104 |
| TPH-DRO (C10 - C21) | | 14.8 | | **19.2** | mg/Kg-dry | 1 | 12/22/2015 3:14 | 115104 |
| TPH-ORO (C21 - C35) | | 14.8 | | **52.1** | mg/Kg-dry | 1 | 12/22/2015 3:14 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **66.7** | %REC | 1 | 12/22/2015 3:14 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **62.4** | %REC | 1 | 12/22/2015 3:14 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **81.2** | %REC | 1 | 12/22/2015 3:14 | 115104 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,1-Dichloro-2-propanone | | 46.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,2,3-Trichloropropane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-005
**Client Sample ID:** SCI-3A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 2-Butanone | NELAP | 46.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 2-Hexanone | NELAP | 46.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 2-Nitropropane | NELAP | 46.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| 4-Methyl-2-pentanone | NELAP | 46.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Acetone | NELAP | 46.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Acetonitrile | NELAP | 92.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Acrolein | NELAP | 92.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Acrylonitrile | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Bromomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Chloroethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Chloromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Cyclohexanone | | 92.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Dichlorodifluoromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Iodomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Methacrylonitrile | NELAP | 46.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-005
**Client Sample ID:** SCI-3A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Methylacrylate | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Naphthalene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| n-Heptane | | 18.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| n-Hexane | | 18.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Nitrobenzene | NELAP | 92.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Propionitrile | NELAP | 46.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| tert-Butyl alcohol | NELAP | 46.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Tetrahydrofuran | NELAP | 46.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| TPH - GRO (C6 - C10) | | 465 | J | **200** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Vinyl acetate | NELAP | 46.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:05 | 115071 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **108.7** | %REC | 1 | 12/18/2015 15:05 | 115071 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **103.3** | %REC | 1 | 12/18/2015 15:05 | 115071 |
| Surr: Toluene-d8 | | 86-116 | | **102.8** | %REC | 1 | 12/18/2015 15:05 | 115071 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-006
**Client Sample ID:** SCI-3B (12-16)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **31.2** | % | 1 | 12/21/2015 20:27 | R212974 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **18.8** | mg/Kg-dry | 1 | 12/22/2015 12:58 | 115115 |
| Barium | NELAP | 0.25 | | **229** | mg/Kg-dry | 1 | 12/22/2015 12:58 | 115115 |
| Cadmium | NELAP | 0.20 | | **9.13** | mg/Kg-dry | 1 | 12/22/2015 12:58 | 115115 |
| Chromium | NELAP | 0.50 | | **20.2** | mg/Kg-dry | 1 | 12/22/2015 12:58 | 115115 |
| Lead | NELAP | 1.50 | | **684** | mg/Kg-dry | 1 | 12/22/2015 12:58 | 115115 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/23/2015 12:12 | 115115 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 12/22/2015 12:58 | 115115 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.028 | | **0.994** | mg/Kg-dry | 2 | 12/22/2015 12:40 | 115122 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0486 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 3:44 | 115104 |
| Anthracene | NELAP | 0.0486 | J | **0.040** | mg/Kg-dry | 1 | 12/22/2015 3:44 | 115104 |
| Benzo(a)anthracene | NELAP | 0.0486 | | **0.460** | mg/Kg-dry | 1 | 12/22/2015 3:44 | 115104 |
| Benzo(a)pyrene | NELAP | 0.0486 | | **0.527** | mg/Kg-dry | 1 | 12/22/2015 3:44 | 115104 |
| Benzo(b)fluoranthene | NELAP | 0.0486 | | **0.706** | mg/Kg-dry | 1 | 12/22/2015 3:44 | 115104 |
| Benzo(k)fluoranthene | NELAP | 0.0486 | | **0.304** | mg/Kg-dry | 1 | 12/22/2015 3:44 | 115104 |
| Chrysene | NELAP | 0.0486 | | **0.419** | mg/Kg-dry | 1 | 12/22/2015 3:44 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 0.0486 | J | **0.048** | mg/Kg-dry | 1 | 12/22/2015 3:44 | 115104 |
| Fluoranthene | NELAP | 0.0486 | | **0.592** | mg/Kg-dry | 1 | 12/22/2015 3:44 | 115104 |
| Fluorene | NELAP | 0.0486 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 3:44 | 115104 |
| Pyrene | NELAP | 0.0486 | | **0.586** | mg/Kg-dry | 1 | 12/22/2015 3:44 | 115104 |
| TPH-DRO (C10 - C21) | | 17.1 | | **21.0** | mg/Kg-dry | 1 | 12/22/2015 3:44 | 115104 |
| TPH-ORO (C21 - C35) | | 17.1 | | **42.8** | mg/Kg-dry | 1 | 12/22/2015 3:44 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.9** | %REC | 1 | 12/22/2015 3:44 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **64.0** | %REC | 1 | 12/22/2015 3:44 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **83.2** | %REC | 1 | 12/22/2015 3:44 | 115104 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,1,1-Trichloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,1,2,2-Tetrachloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,1,2-Trichloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,1-Dichloro-2-propanone | | 66.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,1-Dichloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,1-Dichloroethene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,1-Dichloropropene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,2,3-Trichlorobenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,2,3-Trichloropropane | NELAP | 13.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,2,3-Trimethylbenzene | | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,2,4-Trichlorobenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,2,4-Trimethylbenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,2-Dibromo-3-chloropropane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,2-Dibromoethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,2-Dichlorobenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,2-Dichloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-006
**Client Sample ID:** SCI-3B (12-16)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,3,5-Trimethylbenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,3-Dichlorobenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,3-Dichloropropane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1,4-Dichlorobenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 1-Chlorobutane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 2,2-Dichloropropane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 2-Butanone | NELAP | 66.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 2-Chlorotoluene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 2-Hexanone | NELAP | 66.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 2-Nitropropane | NELAP | 66.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 4-Chlorotoluene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| 4-Methyl-2-pentanone | NELAP | 66.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Acetone | NELAP | 66.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Acetonitrile | NELAP | 133 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Acrolein | NELAP | 133 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Acrylonitrile | NELAP | 13.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Allyl chloride | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Benzene | NELAP | 1.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Bromobenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Bromochloromethane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Bromodichloromethane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Bromoform | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Bromomethane | NELAP | 13.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Carbon disulfide | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Carbon tetrachloride | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Chlorobenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Chloroethane | NELAP | 13.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Chloroform | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Chloromethane | NELAP | 13.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| cis-1,2-Dichloroethene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| cis-1,3-Dichloropropene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Cyclohexanone | | 133 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Dibromochloromethane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Dibromomethane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Dichlorodifluoromethane | NELAP | 13.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Diisopropyl ether | | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Ethyl ether | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Ethyl methacrylate | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Ethylbenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Ethyl-tert-butyl ether | | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Hexachlorobutadiene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Hexachloroethane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Iodomethane | NELAP | 13.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Isopropylbenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| m,p-Xylenes | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Methacrylonitrile | NELAP | 66.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-006
**Client Sample ID:** SCI-3B (12-16)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Methyl tert-butyl ether | NELAP | 2.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Methylacrylate | NELAP | 13.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Methylene chloride | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Naphthalene | NELAP | 13.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| n-Butylbenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| n-Heptane | | 26.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| n-Hexane | | 26.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Nitrobenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| n-Propylbenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| o-Xylene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Pentachloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| p-Isopropyltoluene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Propionitrile | NELAP | 66.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| sec-Butylbenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Styrene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| tert-Amyl methyl ether | | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| tert-Butyl alcohol | NELAP | 66.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| tert-Butylbenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Tetrachloroethene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Tetrahydrofuran | NELAP | 66.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Toluene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| TPH - GRO (C6 - C10) | | 663 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| trans-1,2-Dichloroethene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| trans-1,3-Dichloropropene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| trans-1,4-Dichloro-2-butene | NELAP | 13.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Trichloroethene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Trichlorofluoromethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Vinyl acetate | NELAP | 66.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Vinyl chloride | NELAP | 2.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Xylenes, Total | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:32 | 115071 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.4** | %REC | 1 | 12/18/2015 15:32 | 115071 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **105.5** | %REC | 1 | 12/18/2015 15:32 | 115071 |
| Surr: Toluene-d8 | | 86-116 | | **105.1** | %REC | 1 | 12/18/2015 15:32 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

**Lab ID:** 15121344-007 **Client Sample ID:** SCI-4A (0-3)

**Matrix:** SOLID **Collection Date:** 12/17/2015 11:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **27.1** | % | 1 | 12/21/2015 20:27 | R212974 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **12.0** | mg/Kg-dry | 1 | 12/22/2015 13:01 | 115115 |
| Barium | NELAP | 0.23 | | **194** | mg/Kg-dry | 1 | 12/22/2015 13:01 | 115115 |
| Cadmium | NELAP | 0.18 | | **12.7** | mg/Kg-dry | 1 | 12/22/2015 13:01 | 115115 |
| Chromium | NELAP | 0.45 | | **24.3** | mg/Kg-dry | 1 | 12/22/2015 13:01 | 115115 |
| Lead | NELAP | 1.36 | | **242** | mg/Kg-dry | 1 | 12/22/2015 13:01 | 115115 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 12/22/2015 13:01 | 115115 |
| Silver | NELAP | 0.45 | | **< 0.45** | mg/Kg-dry | 1 | 12/22/2015 13:01 | 115115 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.133** | mg/Kg-dry | 1 | 12/22/2015 10:48 | 115122 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.232 | J | **0.14** | mg/Kg-dry | 5 | 12/22/2015 4:14 | 115104 |
| Anthracene | NELAP | 0.232 | | **0.444** | mg/Kg-dry | 5 | 12/22/2015 4:14 | 115104 |
| Benzo(a)anthracene | NELAP | 0.232 | | **1.41** | mg/Kg-dry | 5 | 12/22/2015 4:14 | 115104 |
| Benzo(a)pyrene | NELAP | 0.232 | | **1.20** | mg/Kg-dry | 5 | 12/22/2015 4:14 | 115104 |
| Benzo(b)fluoranthene | NELAP | 0.232 | | **1.76** | mg/Kg-dry | 5 | 12/22/2015 4:14 | 115104 |
| Benzo(k)fluoranthene | NELAP | 0.232 | | **0.601** | mg/Kg-dry | 5 | 12/22/2015 4:14 | 115104 |
| Chrysene | NELAP | 0.232 | | **1.28** | mg/Kg-dry | 5 | 12/22/2015 4:14 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 0.232 | | **ND** | mg/Kg-dry | 5 | 12/22/2015 4:14 | 115104 |
| Fluoranthene | NELAP | 0.232 | | **3.02** | mg/Kg-dry | 5 | 12/22/2015 4:14 | 115104 |
| Fluorene | NELAP | 0.232 | J | **0.13** | mg/Kg-dry | 5 | 12/22/2015 4:14 | 115104 |
| Pyrene | NELAP | 0.232 | | **2.54** | mg/Kg-dry | 5 | 12/22/2015 4:14 | 115104 |
| TPH-DRO (C10 - C21) | | 82.0 | J | **43** | mg/Kg-dry | 5 | 12/22/2015 4:14 | 115104 |
| TPH-ORO (C21 - C35) | | 82.0 | J | **59** | mg/Kg-dry | 5 | 12/22/2015 4:14 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **65.4** | %REC | 5 | 12/22/2015 4:14 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.5** | %REC | 5 | 12/22/2015 4:14 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **79.1** | %REC | 5 | 12/22/2015 4:14 | 115104 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,1,1-Trichloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,1,2-Trichloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,1-Dichloro-2-propanone | | 52.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,1-Dichloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,1-Dichloroethene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,1-Dichloropropene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,2,3-Trichlorobenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,2,3-Trichloropropane | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,2,3-Trimethylbenzene | | 5.3 | J | **4.6** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,2,4-Trichlorobenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,2,4-Trimethylbenzene | NELAP | 5.3 | | **18.4** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,2-Dibromoethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,2-Dichlorobenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-007
**Client Sample ID:** SCI-4A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 11:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,2-Dichloropropane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,3,5-Trimethylbenzene | NELAP | 5.3 | | **5.8** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,3-Dichlorobenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,3-Dichloropropane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1,4-Dichlorobenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 1-Chlorobutane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 2,2-Dichloropropane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 2-Butanone | NELAP | 52.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 2-Chlorotoluene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 2-Hexanone | NELAP | 52.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 2-Nitropropane | NELAP | 52.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 4-Chlorotoluene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| 4-Methyl-2-pentanone | NELAP | 52.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Acetone | NELAP | 52.7 | J | **17** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Acetonitrile | NELAP | 105 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Acrolein | NELAP | 105 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Acrylonitrile | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Allyl chloride | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Benzene | NELAP | 1.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Bromobenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Bromochloromethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Bromodichloromethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Bromoform | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Bromomethane | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Carbon disulfide | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Carbon tetrachloride | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Chlorobenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Chloroethane | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Chloroform | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Chloromethane | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| cis-1,2-Dichloroethene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| cis-1,3-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Cyclohexanone | | 105 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Dibromochloromethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Dibromomethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Dichlorodifluoromethane | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Diisopropyl ether | | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Ethyl ether | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Ethyl methacrylate | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Ethylbenzene | NELAP | 5.3 | | **36.9** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Ethyl-tert-butyl ether | | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Hexachlorobutadiene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Hexachloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Iodomethane | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Isopropylbenzene | NELAP | 5.3 | J | **1.3** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| m,p-Xylenes | NELAP | 5.3 | | **139** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-007
**Client Sample ID:** SCI-4A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 11:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 52.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Methyl Methacrylate | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Methyl tert-butyl ether | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Methylacrylate | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Methylene chloride | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Naphthalene | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| n-Butylbenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| n-Heptane | | 21.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| n-Hexane | | 21.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Nitrobenzene | NELAP | 105 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| n-Propylbenzene | NELAP | 5.3 | J | **2.8** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| o-Xylene | NELAP | 5.3 | | **47.2** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Pentachloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| p-Isopropyltoluene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Propionitrile | NELAP | 52.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| sec-Butylbenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Styrene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| tert-Amyl methyl ether | | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| tert-Butyl alcohol | NELAP | 52.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| tert-Butylbenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Tetrachloroethene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Tetrahydrofuran | NELAP | 52.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Toluene | NELAP | 346 | | **8300** | µg/Kg-dry | 25 | 12/22/2015 12:26 | 115156 |
| TPH - GRO (C6 - C10) | | 527 | | **4700** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| trans-1,2-Dichloroethene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| trans-1,3-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Trichloroethene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Trichlorofluoromethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Vinyl acetate | NELAP | 52.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Vinyl chloride | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Xylenes, Total | NELAP | 5.3 | | **186** | µg/Kg-dry | 1 | 12/18/2015 15:58 | 115071 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **102.5** | %REC | 1 | 12/18/2015 15:58 | 115071 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **106.9** | %REC | 1 | 12/18/2015 15:58 | 115071 |
| Surr: Toluene-d8 | | 86-116 | | **112.4** | %REC | 1 | 12/18/2015 15:58 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-008
**Client Sample ID:** SCI-4B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 11:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.1** | % | 1 | 12/21/2015 20:28 | R212974 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **4.82** | mg/Kg-dry | 1 | 12/22/2015 13:05 | 115115 |
| Barium | NELAP | 0.24 | | **103** | mg/Kg-dry | 1 | 12/22/2015 13:05 | 115115 |
| Cadmium | NELAP | 0.19 | J | **0.14** | mg/Kg-dry | 1 | 12/22/2015 13:05 | 115115 |
| Chromium | NELAP | 0.48 | | **18.6** | mg/Kg-dry | 1 | 12/22/2015 13:05 | 115115 |
| Lead | NELAP | 1.44 | | **8.53** | mg/Kg-dry | 1 | 12/22/2015 13:05 | 115115 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/22/2015 13:05 | 115115 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/22/2015 13:05 | 115115 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.027** | mg/Kg-dry | 1 | 12/22/2015 10:51 | 115122 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:47 | 115104 |
| Anthracene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:47 | 115104 |
| Benzo(a)anthracene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:47 | 115104 |
| Benzo(a)pyrene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:47 | 115104 |
| Benzo(b)fluoranthene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:47 | 115104 |
| Benzo(k)fluoranthene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:47 | 115104 |
| Chrysene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:47 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:47 | 115104 |
| Fluoranthene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:47 | 115104 |
| Fluorene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:47 | 115104 |
| Pyrene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:47 | 115104 |
| TPH-DRO (C10 - C21) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:47 | 115104 |
| TPH-ORO (C21 - C35) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:47 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **70.3** | %REC | 1 | 12/21/2015 19:47 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **63.8** | %REC | 1 | 12/21/2015 19:47 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **81.8** | %REC | 1 | 12/21/2015 19:47 | 115104 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,1,1-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,1,2-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,1-Dichloro-2-propanone | | 41.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,1-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,1-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,1-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,2,3-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,2,3-Trichloropropane | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,2,3-Trimethylbenzene | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,2,4-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,2,4-Trimethylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,2-Dibromoethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,2-Dichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,2-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-008
**Client Sample ID:** SCI-4B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 11:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,3,5-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,3-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,3-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1,4-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 1-Chlorobutane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 2,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 2-Butanone | NELAP | 41.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 2-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 2-Hexanone | NELAP | 41.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 2-Nitropropane | NELAP | 41.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 4-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| 4-Methyl-2-pentanone | NELAP | 41.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Acetone | NELAP | 41.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Acetonitrile | NELAP | 82.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Acrolein | NELAP | 82.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Acrylonitrile | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Allyl chloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Bromobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Bromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Bromodichloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Bromoform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Bromomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Carbon disulfide | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Carbon tetrachloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Chlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Chloroethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Chloroform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Chloromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| cis-1,2-Dichloroethene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| cis-1,3-Dichloropropene | NELAP | 3.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Cyclohexanone | | 82.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Dibromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Dibromomethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Dichlorodifluoromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Diisopropyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Ethyl ether | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Ethyl methacrylate | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Ethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Ethyl-tert-butyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Hexachlorobutadiene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Hexachloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Iodomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Isopropylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| m,p-Xylenes | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Methacrylonitrile | NELAP | 41.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-008
**Client Sample ID:** SCI-4B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 11:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Methylacrylate | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Methylene chloride | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Naphthalene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| n-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| n-Heptane | | 16.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| n-Hexane | | 16.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Nitrobenzene | NELAP | 82.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| n-Propylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| o-Xylene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Pentachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| p-Isopropyltoluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Propionitrile | NELAP | 41.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| sec-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Styrene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| tert-Amyl methyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| tert-Butyl alcohol | NELAP | 41.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| tert-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Tetrachloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Tetrahydrofuran | NELAP | 41.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Toluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| TPH - GRO (C6 - C10) | | 415 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| trans-1,2-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| trans-1,3-Dichloropropene | NELAP | 3.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Trichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Trichlorofluoromethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Vinyl acetate | NELAP | 41.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Xylenes, Total | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:25 | 115071 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **107.0** | %REC | 1 | 12/18/2015 16:25 | 115071 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.3** | %REC | 1 | 12/18/2015 16:25 | 115071 |
| Surr: Toluene-d8 | | 86-116 | | **102.2** | %REC | 1 | 12/18/2015 16:25 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

**Lab ID:** 15121344-009 **Client Sample ID:** SCI-4D (16-20)

**Matrix:** SOLID **Collection Date:** 12/17/2015 11:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.5** | % | 1 | 12/21/2015 20:29 | R212974 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **5.39** | mg/Kg-dry | 1 | 12/22/2015 13:09 | 115115 |
| Barium | NELAP | 0.23 | | **75.9** | mg/Kg-dry | 1 | 12/22/2015 13:09 | 115115 |
| Cadmium | NELAP | 0.19 | J | **0.13** | mg/Kg-dry | 1 | 12/22/2015 13:09 | 115115 |
| Chromium | NELAP | 0.46 | | **20.6** | mg/Kg-dry | 1 | 12/22/2015 13:09 | 115115 |
| Lead | NELAP | 1.39 | | **9.76** | mg/Kg-dry | 1 | 12/22/2015 13:09 | 115115 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 12/22/2015 13:09 | 115115 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 12/22/2015 13:09 | 115115 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.027** | mg/Kg-dry | 1 | 12/22/2015 10:53 | 115122 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0407 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 20:17 | 115104 |
| Anthracene | NELAP | 0.0407 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 20:17 | 115104 |
| Benzo(a)anthracene | NELAP | 0.0407 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 20:17 | 115104 |
| Benzo(a)pyrene | NELAP | 0.0407 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 20:17 | 115104 |
| Benzo(b)fluoranthene | NELAP | 0.0407 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 20:17 | 115104 |
| Benzo(k)fluoranthene | NELAP | 0.0407 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 20:17 | 115104 |
| Chrysene | NELAP | 0.0407 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 20:17 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 0.0407 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 20:17 | 115104 |
| Fluoranthene | NELAP | 0.0407 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 20:17 | 115104 |
| Fluorene | NELAP | 0.0407 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 20:17 | 115104 |
| Pyrene | NELAP | 0.0407 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 20:17 | 115104 |
| TPH-DRO (C10 - C21) | | 14.4 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 20:17 | 115104 |
| TPH-ORO (C21 - C35) | | 14.4 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 20:17 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.9** | %REC | 1 | 12/21/2015 20:17 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.4** | %REC | 1 | 12/21/2015 20:17 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **83.3** | %REC | 1 | 12/21/2015 20:17 | 115104 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,1-Dichloro-2-propanone | | 46.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-009
**Client Sample ID:** SCI-4D (16-20)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 11:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 2-Butanone | NELAP | 46.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 2-Hexanone | NELAP | 46.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 2-Nitropropane | NELAP | 46.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| 4-Methyl-2-pentanone | NELAP | 46.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Acetone | NELAP | 46.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Acetonitrile | NELAP | 91.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Acrolein | NELAP | 91.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Cyclohexanone | | 91.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Iodomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Methacrylonitrile | NELAP | 46.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-009
**Client Sample ID:** SCI-4D (16-20)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 11:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| n-Heptane | | 18.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| n-Hexane | | 18.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Nitrobenzene | NELAP | 91.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Propionitrile | NELAP | 46.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| tert-Butyl alcohol | NELAP | 46.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Tetrahydrofuran | NELAP | 46.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| TPH - GRO (C6 - C10) | | 460 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Vinyl acetate | NELAP | 46.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 16:51 | 115071 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **106.0** | %REC | 1 | 12/18/2015 16:51 | 115071 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.9** | %REC | 1 | 12/18/2015 16:51 | 115071 |
| Surr: Toluene-d8 | | 86-116 | | **102.8** | %REC | 1 | 12/18/2015 16:51 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

**Lab ID:** 15121344-010 **Client Sample ID:** SCI-5A (0-3)

**Matrix:** SOLID **Collection Date:** 12/17/2015 12:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.5** | % | 1 | 12/21/2015 20:29 | R212974 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **7.33** | mg/Kg-dry | 1 | 12/22/2015 13:12 | 115115 |
| Barium | NELAP | 0.23 | | **198** | mg/Kg-dry | 1 | 12/22/2015 13:12 | 115115 |
| Cadmium | NELAP | 0.19 | | **0.61** | mg/Kg-dry | 1 | 12/22/2015 13:12 | 115115 |
| Chromium | NELAP | 0.46 | | **17.9** | mg/Kg-dry | 1 | 12/22/2015 13:12 | 115115 |
| Lead | NELAP | 1.39 | | **134** | mg/Kg-dry | 1 | 12/22/2015 13:12 | 115115 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 12/22/2015 13:12 | 115115 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 12/22/2015 13:12 | 115115 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.071** | mg/Kg-dry | 1 | 12/22/2015 11:04 | 115122 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.404 | | **0.463** | mg/Kg-dry | 10 | 12/22/2015 19:51 | 115104 |
| Anthracene | NELAP | 0.404 | | **1.12** | mg/Kg-dry | 10 | 12/22/2015 19:51 | 115104 |
| Benzo(a)anthracene | NELAP | 0.404 | | **3.43** | mg/Kg-dry | 10 | 12/22/2015 19:51 | 115104 |
| Benzo(a)pyrene | NELAP | 0.404 | | **3.12** | mg/Kg-dry | 10 | 12/22/2015 19:51 | 115104 |
| Benzo(b)fluoranthene | NELAP | 0.404 | | **4.19** | mg/Kg-dry | 10 | 12/22/2015 19:51 | 115104 |
| Benzo(k)fluoranthene | NELAP | 0.404 | | **1.43** | mg/Kg-dry | 10 | 12/22/2015 19:51 | 115104 |
| Chrysene | NELAP | 0.404 | | **3.18** | mg/Kg-dry | 10 | 12/22/2015 19:51 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 0.404 | J | **0.36** | mg/Kg-dry | 10 | 12/22/2015 19:51 | 115104 |
| Fluoranthene | NELAP | 0.404 | | **7.26** | mg/Kg-dry | 10 | 12/22/2015 19:51 | 115104 |
| Fluorene | NELAP | 0.404 | | **0.436** | mg/Kg-dry | 10 | 12/22/2015 19:51 | 115104 |
| Pyrene | NELAP | 0.404 | | **6.55** | mg/Kg-dry | 10 | 12/22/2015 19:51 | 115104 |
| TPH-DRO (C10 - C21) | | 143 | SR | **368** | mg/Kg-dry | 10 | 12/22/2015 19:51 | 115104 |
| TPH-ORO (C21 - C35) | | 713 | | **2090** | mg/Kg-dry | 50 | 12/23/2015 13:42 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **79.0** | %REC | 10 | 12/22/2015 19:51 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **73.5** | %REC | 10 | 12/22/2015 19:51 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **92.2** | %REC | 10 | 12/22/2015 19:51 | 115104 |

*RPD, MS and MSD recovery did not recover within control limits due to sample composition.*
*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,1-Dichloro-2-propanone | | 45.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,2,3-Trichloropropane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

**Lab ID:** 15121344-010 **Client Sample ID:** SCI-5A (0-3)

**Matrix:** SOLID **Collection Date:** 12/17/2015 12:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,2-Dichloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 2-Butanone | NELAP | 45.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 2-Hexanone | NELAP | 45.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 2-Nitropropane | NELAP | 45.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| 4-Methyl-2-pentanone | NELAP | 45.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Acetone | NELAP | 45.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Acetonitrile | NELAP | 90.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Acrolein | NELAP | 90.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Acrylonitrile | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Bromomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Chloroethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Chloromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Cyclohexanone | | 90.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Dichlorodifluoromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Iodomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-010
**Client Sample ID:** SCI-5A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 12:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| m,p-Xylenes | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Methacrylonitrile | NELAP | 45.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Methylacrylate | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Naphthalene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| n-Heptane | | 18.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| n-Hexane | | 18.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Nitrobenzene | NELAP | 90.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Propionitrile | NELAP | 45.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| tert-Butyl alcohol | NELAP | 45.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Tetrahydrofuran | NELAP | 45.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| TPH - GRO (C6 - C10) | | 450 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Vinyl acetate | NELAP | 45.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:18 | 115071 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **105.0** | %REC | 1 | 12/18/2015 17:18 | 115071 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **106.6** | %REC | 1 | 12/18/2015 17:18 | 115071 |
| Surr: Toluene-d8 | | 86-116 | | **101.8** | %REC | 1 | 12/18/2015 17:18 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

**Lab ID:** 15121344-011 **Client Sample ID:** SCI-5B (4-8)

**Matrix:** SOLID **Collection Date:** 12/17/2015 12:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **15.3** | % | 1 | 12/21/2015 20:29 | R212974 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **7.06** | mg/Kg-dry | 1 | 12/22/2015 13:27 | 115115 |
| Barium | NELAP | 0.24 | | **129** | mg/Kg-dry | 1 | 12/22/2015 13:27 | 115115 |
| Cadmium | NELAP | 0.19 | | **0.19** | mg/Kg-dry | 1 | 12/22/2015 13:27 | 115115 |
| Chromium | NELAP | 0.48 | | **15.1** | mg/Kg-dry | 1 | 12/22/2015 13:27 | 115115 |
| Lead | NELAP | 1.44 | | **9.56** | mg/Kg-dry | 1 | 12/22/2015 13:27 | 115115 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/22/2015 13:27 | 115115 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/22/2015 13:27 | 115115 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.031** | mg/Kg-dry | 1 | 12/22/2015 11:07 | 115122 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 4.01 | | **ND** | mg/Kg-dry | 10 | 12/22/2015 19:21 | 115104 |
| Anthracene | NELAP | 4.01 | | **ND** | mg/Kg-dry | 10 | 12/22/2015 19:21 | 115104 |
| Benzo(a)anthracene | NELAP | 4.01 | | **ND** | mg/Kg-dry | 10 | 12/22/2015 19:21 | 115104 |
| Benzo(a)pyrene | NELAP | 4.01 | | **ND** | mg/Kg-dry | 10 | 12/22/2015 19:21 | 115104 |
| Benzo(b)fluoranthene | NELAP | 4.01 | | **ND** | mg/Kg-dry | 10 | 12/22/2015 19:21 | 115104 |
| Benzo(k)fluoranthene | NELAP | 4.01 | | **ND** | mg/Kg-dry | 10 | 12/22/2015 19:21 | 115104 |
| Chrysene | NELAP | 4.01 | | **ND** | mg/Kg-dry | 10 | 12/22/2015 19:21 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 4.01 | | **ND** | mg/Kg-dry | 10 | 12/22/2015 19:21 | 115104 |
| Fluoranthene | NELAP | 4.01 | | **ND** | mg/Kg-dry | 10 | 12/22/2015 19:21 | 115104 |
| Fluorene | NELAP | 4.01 | | **ND** | mg/Kg-dry | 10 | 12/22/2015 19:21 | 115104 |
| Pyrene | NELAP | 4.01 | J | **2.0** | mg/Kg-dry | 10 | 12/22/2015 19:21 | 115104 |
| TPH-DRO (C10 - C21) | | 1410 | | **10700** | mg/Kg-dry | 10 | 12/22/2015 19:21 | 115104 |
| TPH-ORO (C21 - C35) | | 7070 | | **38300** | mg/Kg-dry | 50 | 12/23/2015 15:13 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **87.8** | %REC | 10 | 12/22/2015 19:21 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **95.8** | %REC | 10 | 12/22/2015 19:21 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **115.8** | %REC | 10 | 12/22/2015 19:21 | 115104 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,1-Dichloro-2-propanone | | 1210 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,1-Dichloroethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,1-Dichloroethene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,1-Dichloropropene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 242 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,2,3-Trimethylbenzene | | 121 | | **274** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 121 | | **424** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,2-Dibromoethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

**Lab ID:** 15121344-011 **Client Sample ID:** SCI-5B (4-8)

**Matrix:** SOLID **Collection Date:** 12/17/2015 12:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,2-Dichloropropane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 121 | J | **98** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,3-Dichloropropane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 1-Chlorobutane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 2,2-Dichloropropane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 2-Butanone | NELAP | 1210 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 2-Chlorotoluene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 2-Hexanone | NELAP | 1210 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 2-Nitropropane | NELAP | 1210 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 4-Chlorotoluene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 1210 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Acetone | NELAP | 1210 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Acetonitrile | NELAP | 2420 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Acrolein | NELAP | 2420 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Acrylonitrile | NELAP | 242 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Allyl chloride | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Benzene | NELAP | 24.2 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Bromobenzene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Bromochloromethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Bromodichloromethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Bromoform | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Bromomethane | NELAP | 242 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Carbon disulfide | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Carbon tetrachloride | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Chlorobenzene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Chloroethane | NELAP | 242 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Chloroform | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Chloromethane | NELAP | 242 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 96.8 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Cyclohexanone | | 2420 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Dibromochloromethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Dibromomethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Dichlorodifluoromethane | NELAP | 242 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Diisopropyl ether | | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Ethyl ether | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Ethyl methacrylate | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Ethylbenzene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Ethyl-tert-butyl ether | | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Hexachlorobutadiene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Hexachloroethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Iodomethane | NELAP | 242 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Isopropylbenzene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| m,p-Xylenes | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

**Lab ID:** 15121344-011 **Client Sample ID:** SCI-5B (4-8)

**Matrix:** SOLID **Collection Date:** 12/17/2015 12:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 1210 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Methyl Methacrylate | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Methyl tert-butyl ether | NELAP | 48.4 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Methylacrylate | NELAP | 242 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Methylene chloride | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Naphthalene | NELAP | 242 | J | **170** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| n-Butylbenzene | NELAP | 121 | J | **52** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| n-Heptane | | 484 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| n-Hexane | | 484 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Nitrobenzene | NELAP | 2420 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| n-Propylbenzene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| o-Xylene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Pentachloroethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| p-Isopropyltoluene | NELAP | 121 | | **399** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Propionitrile | NELAP | 1210 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| sec-Butylbenzene | NELAP | 121 | J | **28** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Styrene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| tert-Amyl methyl ether | | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| tert-Butyl alcohol | NELAP | 1210 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| tert-Butylbenzene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Tetrachloroethene | NELAP | 121 | | **123** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Tetrahydrofuran | NELAP | 1210 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Toluene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| TPH - GRO (C6 - C10) | | 12100 | J | **10000** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 96.8 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 242 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Trichloroethene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Trichlorofluoromethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Vinyl acetate | NELAP | 1210 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Vinyl chloride | NELAP | 48.4 | | **ND** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Xylenes, Total | NELAP | 121 | J | **31** | µg/Kg-dry | 12.5 | 12/22/2015 12:52 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **99.1** | %REC | 12.5 | 12/22/2015 12:52 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.7** | %REC | 12.5 | 12/22/2015 12:52 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **94.7** | %REC | 12.5 | 12/22/2015 12:52 | 115156 |

*Elevated reporting limit due to high levels of target and/or non-target analytes.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-012
**Client Sample ID:** SCI-6A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 13:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.2** | % | 1 | 12/21/2015 20:30 | R212974 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **9.31** | mg/Kg-dry | 1 | 12/22/2015 13:31 | 115115 |
| Barium | NELAP | 0.25 | | **200** | mg/Kg-dry | 1 | 12/22/2015 13:31 | 115115 |
| Cadmium | NELAP | 0.20 | | **0.32** | mg/Kg-dry | 1 | 12/22/2015 13:31 | 115115 |
| Chromium | NELAP | 0.49 | | **18.3** | mg/Kg-dry | 1 | 12/22/2015 13:31 | 115115 |
| Lead | NELAP | 1.47 | | **34.4** | mg/Kg-dry | 1 | 12/22/2015 13:31 | 115115 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 12/22/2015 13:31 | 115115 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 12/22/2015 13:31 | 115115 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.045** | mg/Kg-dry | 1 | 12/22/2015 11:09 | 115122 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 0:45 | 115104 |
| Anthracene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 0:45 | 115104 |
| Benzo(a)anthracene | NELAP | 0.0417 | | **0.0755** | mg/Kg-dry | 1 | 12/22/2015 0:45 | 115104 |
| Benzo(a)pyrene | NELAP | 0.0417 | | **0.0568** | mg/Kg-dry | 1 | 12/22/2015 0:45 | 115104 |
| Benzo(b)fluoranthene | NELAP | 0.0417 | | **0.0809** | mg/Kg-dry | 1 | 12/22/2015 0:45 | 115104 |
| Benzo(k)fluoranthene | NELAP | 0.0417 | J | **0.027** | mg/Kg-dry | 1 | 12/22/2015 0:45 | 115104 |
| Chrysene | NELAP | 0.0417 | | **0.0584** | mg/Kg-dry | 1 | 12/22/2015 0:45 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 0:45 | 115104 |
| Fluoranthene | NELAP | 0.0417 | | **0.133** | mg/Kg-dry | 1 | 12/22/2015 0:45 | 115104 |
| Fluorene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 0:45 | 115104 |
| Pyrene | NELAP | 0.0417 | | **0.109** | mg/Kg-dry | 1 | 12/22/2015 0:45 | 115104 |
| TPH-DRO (C10 - C21) | | 14.7 | J | **8.7** | mg/Kg-dry | 1 | 12/22/2015 0:45 | 115104 |
| TPH-ORO (C21 - C35) | | 14.7 | J | **11** | mg/Kg-dry | 1 | 12/22/2015 0:45 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.9** | %REC | 1 | 12/22/2015 0:45 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **68.0** | %REC | 1 | 12/22/2015 0:45 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **86.3** | %REC | 1 | 12/22/2015 0:45 | 115104 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,1-Dichloro-2-propanone | | 44.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,2,3-Trichloropropane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,2-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

**Lab ID:** 15121344-012 **Client Sample ID:** SCI-6A (0-3)

**Matrix:** SOLID **Collection Date:** 12/17/2015 13:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 2-Butanone | NELAP | 44.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 2-Hexanone | NELAP | 44.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 2-Nitropropane | NELAP | 44.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| 4-Methyl-2-pentanone | NELAP | 44.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Acetone | NELAP | 44.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Acetonitrile | NELAP | 89.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Acrolein | NELAP | 89.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Acrylonitrile | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Bromomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Chloroethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Chloromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Cyclohexanone | | 89.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Dichlorodifluoromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Iodomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Methacrylonitrile | NELAP | 44.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-012
**Client Sample ID:** SCI-6A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 13:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Methylacrylate | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Naphthalene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| n-Heptane | | 17.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| n-Hexane | | 17.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Nitrobenzene | NELAP | 89.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Propionitrile | NELAP | 44.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| tert-Butyl alcohol | NELAP | 44.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Tetrahydrofuran | NELAP | 44.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| TPH - GRO (C6 - C10) | | 448 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Vinyl acetate | NELAP | 44.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 17:44 | 115071 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.4** | %REC | 1 | 12/18/2015 17:44 | 115071 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.4** | %REC | 1 | 12/18/2015 17:44 | 115071 |
| Surr: Toluene-d8 | | 86-116 | | **102.8** | %REC | 1 | 12/18/2015 17:44 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-013
**Client Sample ID:** SCI-6B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 13:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.3** | % | 1 | 12/21/2015 20:30 | R212974 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **7.79** | mg/Kg-dry | 1 | 12/22/2015 13:34 | 115115 |
| Barium | NELAP | 0.24 | | **103** | mg/Kg-dry | 1 | 12/22/2015 13:34 | 115115 |
| Cadmium | NELAP | 0.19 | J | **0.07** | mg/Kg-dry | 1 | 12/22/2015 13:34 | 115115 |
| Chromium | NELAP | 0.47 | | **31.8** | mg/Kg-dry | 1 | 12/22/2015 13:34 | 115115 |
| Lead | NELAP | 1.42 | | **15.0** | mg/Kg-dry | 1 | 12/22/2015 13:34 | 115115 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/22/2015 13:34 | 115115 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 12/22/2015 13:34 | 115115 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.019** | mg/Kg-dry | 1 | 12/22/2015 11:11 | 115122 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 1:15 | 115104 |
| Anthracene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 1:15 | 115104 |
| Benzo(a)anthracene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 1:15 | 115104 |
| Benzo(a)pyrene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 1:15 | 115104 |
| Benzo(b)fluoranthene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 1:15 | 115104 |
| Benzo(k)fluoranthene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 1:15 | 115104 |
| Chrysene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 1:15 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 1:15 | 115104 |
| Fluoranthene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 1:15 | 115104 |
| Fluorene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 1:15 | 115104 |
| Pyrene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 1:15 | 115104 |
| TPH-DRO (C10 - C21) | | 14.5 | J | **7.4** | mg/Kg-dry | 1 | 12/22/2015 1:15 | 115104 |
| TPH-ORO (C21 - C35) | | 14.5 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 1:15 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **68.9** | %REC | 1 | 12/22/2015 1:15 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **67.7** | %REC | 1 | 12/22/2015 1:15 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **86.2** | %REC | 1 | 12/22/2015 1:15 | 115104 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,1,1-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,1,2-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,1-Dichloro-2-propanone | | 40.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,1-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,1-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,1-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,2,3-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,2,3-Trichloropropane | NELAP | 8.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,2,3-Trimethylbenzene | | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,2,4-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,2,4-Trimethylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,2-Dibromoethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,2-Dichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,2-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-013
**Client Sample ID:** SCI-6B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 13:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,3,5-Trimethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,3-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,3-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1,4-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 1-Chlorobutane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 2,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 2-Butanone | NELAP | 40.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 2-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 2-Hexanone | NELAP | 40.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 2-Nitropropane | NELAP | 40.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 4-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| 4-Methyl-2-pentanone | NELAP | 40.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Acetone | NELAP | 40.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Acetonitrile | NELAP | 81.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Acrolein | NELAP | 81.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Acrylonitrile | NELAP | 8.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Allyl chloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Bromobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Bromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Bromodichloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Bromoform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Bromomethane | NELAP | 8.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Carbon disulfide | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Carbon tetrachloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Chlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Chloroethane | NELAP | 8.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Chloroform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Chloromethane | NELAP | 8.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| cis-1,2-Dichloroethene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| cis-1,3-Dichloropropene | NELAP | 3.2 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Cyclohexanone | | 81.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Dibromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Dibromomethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Dichlorodifluoromethane | NELAP | 8.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Diisopropyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Ethyl ether | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Ethyl methacrylate | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Ethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Ethyl-tert-butyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Hexachlorobutadiene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Hexachloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Iodomethane | NELAP | 8.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Isopropylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| m,p-Xylenes | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Methacrylonitrile | NELAP | 40.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-013
**Client Sample ID:** SCI-6B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 13:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Methyl tert-butyl ether | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Methylacrylate | NELAP | 8.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Methylene chloride | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Naphthalene | NELAP | 8.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| n-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| n-Heptane | | 16.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| n-Hexane | | 16.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Nitrobenzene | NELAP | 81.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| n-Propylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| o-Xylene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Pentachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| p-Isopropyltoluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Propionitrile | NELAP | 40.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| sec-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Styrene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| tert-Amyl methyl ether | | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| tert-Butyl alcohol | NELAP | 40.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| tert-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Tetrachloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Tetrahydrofuran | NELAP | 40.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Toluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| TPH - GRO (C6 - C10) | | 406 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| trans-1,2-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| trans-1,3-Dichloropropene | NELAP | 3.2 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Trichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Trichlorofluoromethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Vinyl acetate | NELAP | 40.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Vinyl chloride | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Xylenes, Total | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:11 | 115071 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **102.9** | %REC | 1 | 12/18/2015 18:11 | 115071 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.1** | %REC | 1 | 12/18/2015 18:11 | 115071 |
| Surr: Toluene-d8 | | 86-116 | | **103.4** | %REC | 1 | 12/18/2015 18:11 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

**Lab ID:** 15121344-014 **Client Sample ID:** SCI-7A (0-3)

**Matrix:** SOLID **Collection Date:** 12/17/2015 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **22.6** | % | 1 | 12/21/2015 20:30 | R212974 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **13.2** | mg/Kg-dry | 1 | 12/22/2015 13:45 | 115115 |
| Barium | NELAP | 0.23 | | **236** | mg/Kg-dry | 1 | 12/22/2015 13:45 | 115115 |
| Cadmium | NELAP | 0.19 | | **1.83** | mg/Kg-dry | 1 | 12/22/2015 13:45 | 115115 |
| Chromium | NELAP | 0.46 | | **24.4** | mg/Kg-dry | 1 | 12/22/2015 13:45 | 115115 |
| Lead | NELAP | 1.39 | | **875** | mg/Kg-dry | 1 | 12/22/2015 13:45 | 115115 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 12/22/2015 13:45 | 115115 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 12/22/2015 13:45 | 115115 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.405** | mg/Kg-dry | 1 | 12/22/2015 11:14 | 115122 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 3.27 | | **6.25** | mg/Kg-dry | 25 | 12/22/2015 18:51 | 115104 |
| Anthracene | NELAP | 3.27 | | **14.0** | mg/Kg-dry | 25 | 12/22/2015 18:51 | 115104 |
| Benzo(a)anthracene | NELAP | 3.27 | | **36.5** | mg/Kg-dry | 25 | 12/22/2015 18:51 | 115104 |
| Benzo(a)pyrene | NELAP | 3.27 | | **29.7** | mg/Kg-dry | 25 | 12/22/2015 18:51 | 115104 |
| Benzo(b)fluoranthene | NELAP | 3.27 | | **36.2** | mg/Kg-dry | 25 | 12/22/2015 18:51 | 115104 |
| Benzo(k)fluoranthene | NELAP | 3.27 | | **14.6** | mg/Kg-dry | 25 | 12/22/2015 18:51 | 115104 |
| Chrysene | NELAP | 3.27 | | **30.7** | mg/Kg-dry | 25 | 12/22/2015 18:51 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 3.27 | | **3.49** | mg/Kg-dry | 25 | 12/22/2015 18:51 | 115104 |
| Fluoranthene | NELAP | 3.27 | | **79.1** | mg/Kg-dry | 25 | 12/22/2015 18:51 | 115104 |
| Fluorene | NELAP | 3.27 | | **5.61** | mg/Kg-dry | 25 | 12/22/2015 18:51 | 115104 |
| Pyrene | NELAP | 3.27 | | **69.8** | mg/Kg-dry | 25 | 12/22/2015 18:51 | 115104 |
| TPH-DRO (C10 - C21) | | 1150 | J | **640** | mg/Kg-dry | 25 | 12/22/2015 18:51 | 115104 |
| TPH-ORO (C21 - C35) | | 1150 | J | **870** | mg/Kg-dry | 25 | 12/22/2015 18:51 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **78.3** | %REC | 25 | 12/22/2015 18:51 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **69.4** | %REC | 25 | 12/22/2015 18:51 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **95.8** | %REC | 25 | 12/22/2015 18:51 | 115104 |

*Elevated reporting limit due to sample extract composition.*

| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,1,1-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,1,2-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,1-Dichloro-2-propanone | | 48.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,1-Dichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,1-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,1-Dichloropropene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,2,3-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,2,3-Trichloropropane | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,2,3-Trimethylbenzene | | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,2,4-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,2,4-Trimethylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,2-Dibromoethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,2-Dichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-014
**Client Sample ID:** SCI-7A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,3,5-Trimethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,3-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,3-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1,4-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 1-Chlorobutane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 2,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 2-Butanone | NELAP | 48.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 2-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 2-Hexanone | NELAP | 48.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 2-Nitropropane | NELAP | 48.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 4-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| 4-Methyl-2-pentanone | NELAP | 48.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Acetone | NELAP | 48.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Acetonitrile | NELAP | 97.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Acrolein | NELAP | 97.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Acrylonitrile | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Allyl chloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Bromobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Bromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Bromodichloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Bromoform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Bromomethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Carbon disulfide | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Carbon tetrachloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Chlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Chloroethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Chloroform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Chloromethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| cis-1,2-Dichloroethene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| cis-1,3-Dichloropropene | NELAP | 3.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Cyclohexanone | | 97.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Dibromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Dibromomethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Dichlorodifluoromethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Diisopropyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Ethyl ether | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Ethyl methacrylate | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Ethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Ethyl-tert-butyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Hexachlorobutadiene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Hexachloroethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Iodomethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Isopropylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| m,p-Xylenes | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-014
**Client Sample ID:** SCI-7A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 48.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Methyl Methacrylate | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Methylacrylate | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Methylene chloride | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Naphthalene | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| n-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| n-Heptane | | 19.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| n-Hexane | | 19.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Nitrobenzene | NELAP | 97.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| n-Propylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| o-Xylene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Pentachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| p-Isopropyltoluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Propionitrile | NELAP | 48.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| sec-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Styrene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| tert-Amyl methyl ether | | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| tert-Butyl alcohol | NELAP | 48.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| tert-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Tetrachloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Tetrahydrofuran | NELAP | 48.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Toluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| TPH - GRO (C6 - C10) | | 488 | J | **270** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| trans-1,2-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| trans-1,3-Dichloropropene | NELAP | 3.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Trichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Trichlorofluoromethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Vinyl acetate | NELAP | 48.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Xylenes, Total | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 18:37 | 115071 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.2** | %REC | 1 | 12/18/2015 18:37 | 115071 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.5** | %REC | 1 | 12/18/2015 18:37 | 115071 |
| Surr: Toluene-d8 | | 86-116 | | **101.2** | %REC | 1 | 12/18/2015 18:37 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-015
**Client Sample ID:** SCI-7B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.9** | % | 1 | 12/21/2015 20:41 | R212974 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **5.72** | mg/Kg-dry | 1 | 12/22/2015 13:49 | 115115 |
| Barium | NELAP | 0.24 | | **95.1** | mg/Kg-dry | 1 | 12/22/2015 13:49 | 115115 |
| Cadmium | NELAP | 0.19 | J | **0.14** | mg/Kg-dry | 1 | 12/22/2015 13:49 | 115115 |
| Chromium | NELAP | 0.47 | | **19.2** | mg/Kg-dry | 1 | 12/22/2015 13:49 | 115115 |
| Lead | NELAP | 1.42 | | **10.2** | mg/Kg-dry | 1 | 12/22/2015 13:49 | 115115 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/22/2015 13:49 | 115115 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 12/22/2015 13:49 | 115115 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.030** | mg/Kg-dry | 1 | 12/22/2015 11:16 | 115122 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0415 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:48 | 115104 |
| Anthracene | NELAP | 0.0415 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:48 | 115104 |
| Benzo(a)anthracene | NELAP | 0.0415 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:48 | 115104 |
| Benzo(a)pyrene | NELAP | 0.0415 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:48 | 115104 |
| Benzo(b)fluoranthene | NELAP | 0.0415 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:48 | 115104 |
| Benzo(k)fluoranthene | NELAP | 0.0415 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:48 | 115104 |
| Chrysene | NELAP | 0.0415 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:48 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 0.0415 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:48 | 115104 |
| Fluoranthene | NELAP | 0.0415 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:48 | 115104 |
| Fluorene | NELAP | 0.0415 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:48 | 115104 |
| Pyrene | NELAP | 0.0415 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:48 | 115104 |
| TPH-DRO (C10 - C21) | | 14.6 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:48 | 115104 |
| TPH-ORO (C21 - C35) | | 14.6 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:48 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **68.2** | %REC | 1 | 12/21/2015 18:48 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.6** | %REC | 1 | 12/21/2015 18:48 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **87.0** | %REC | 1 | 12/21/2015 18:48 | 115104 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,1-Dichloro-2-propanone | | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,2,3-Trichloropropane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-015
**Client Sample ID:** SCI-7B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 2-Butanone | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 2-Hexanone | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 2-Nitropropane | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| 4-Methyl-2-pentanone | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Acetone | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Acetonitrile | NELAP | 88.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Acrolein | NELAP | 88.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Acrylonitrile | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Bromomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Chloroethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Chloromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Cyclohexanone | | 88.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Dichlorodifluoromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Iodomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Methacrylonitrile | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-015
**Client Sample ID:** SCI-7B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Methylacrylate | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Naphthalene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| n-Heptane | | 17.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| n-Hexane | | 17.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Nitrobenzene | NELAP | 88.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Propionitrile | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| tert-Butyl alcohol | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Tetrahydrofuran | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| TPH - GRO (C6 - C10) | | 444 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Vinyl acetate | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:03 | 115071 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.8** | %REC | 1 | 12/18/2015 19:03 | 115071 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.4** | %REC | 1 | 12/18/2015 19:03 | 115071 |
| Surr: Toluene-d8 | | 86-116 | | **103.2** | %REC | 1 | 12/18/2015 19:03 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

**Lab ID:** 15121344-016 **Client Sample ID:** SCI-8A (0-3)

**Matrix:** SOLID **Collection Date:** 12/17/2015 14:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.5** | % | 1 | 12/21/2015 20:42 | R212974 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **7.73** | mg/Kg-dry | 1 | 12/22/2015 13:53 | 115115 |
| Barium | NELAP | 0.23 | | **202** | mg/Kg-dry | 1 | 12/22/2015 13:53 | 115115 |
| Cadmium | NELAP | 0.18 | | **0.73** | mg/Kg-dry | 1 | 12/22/2015 13:53 | 115115 |
| Chromium | NELAP | 0.45 | | **22.2** | mg/Kg-dry | 1 | 12/22/2015 13:53 | 115115 |
| Lead | NELAP | 1.36 | | **483** | mg/Kg-dry | 1 | 12/22/2015 13:53 | 115115 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 12/22/2015 13:53 | 115115 |
| Silver | NELAP | 0.45 | | **< 0.45** | mg/Kg-dry | 1 | 12/22/2015 13:53 | 115115 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.210** | mg/Kg-dry | 1 | 12/22/2015 11:18 | 115122 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 1.04 | | **1.36** | mg/Kg-dry | 25 | 12/22/2015 18:21 | 115104 |
| Anthracene | NELAP | 1.04 | | **4.63** | mg/Kg-dry | 25 | 12/22/2015 18:21 | 115104 |
| Benzo(a)anthracene | NELAP | 1.04 | | **16.6** | mg/Kg-dry | 25 | 12/22/2015 18:21 | 115104 |
| Benzo(a)pyrene | NELAP | 1.04 | | **14.4** | mg/Kg-dry | 25 | 12/22/2015 18:21 | 115104 |
| Benzo(b)fluoranthene | NELAP | 1.04 | | **18.1** | mg/Kg-dry | 25 | 12/22/2015 18:21 | 115104 |
| Benzo(k)fluoranthene | NELAP | 1.04 | | **5.83** | mg/Kg-dry | 25 | 12/22/2015 18:21 | 115104 |
| Chrysene | NELAP | 1.04 | | **14.4** | mg/Kg-dry | 25 | 12/22/2015 18:21 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 1.04 | | **1.66** | mg/Kg-dry | 25 | 12/22/2015 18:21 | 115104 |
| Fluoranthene | NELAP | 1.04 | | **37.2** | mg/Kg-dry | 25 | 12/22/2015 18:21 | 115104 |
| Fluorene | NELAP | 1.04 | | **1.12** | mg/Kg-dry | 25 | 12/22/2015 18:21 | 115104 |
| Pyrene | NELAP | 1.04 | | **33.5** | mg/Kg-dry | 25 | 12/22/2015 18:21 | 115104 |
| TPH-DRO (C10 - C21) | | 366 | J | **210** | mg/Kg-dry | 25 | 12/22/2015 18:21 | 115104 |
| TPH-ORO (C21 - C35) | | 366 | | **393** | mg/Kg-dry | 25 | 12/22/2015 18:21 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **68.9** | %REC | 25 | 12/22/2015 18:21 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **63.4** | %REC | 25 | 12/22/2015 18:21 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **83.3** | %REC | 25 | 12/22/2015 18:21 | 115104 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,1-Dichloro-2-propanone | | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,2,3-Trichloropropane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-016
**Client Sample ID:** SCI-8A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 14:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 2-Butanone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 2-Hexanone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 2-Nitropropane | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| 4-Methyl-2-pentanone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Acetone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Acetonitrile | NELAP | 90.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Acrolein | NELAP | 90.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Acrylonitrile | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Bromomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Chloroethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Chloromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Cyclohexanone | | 90.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Dichlorodifluoromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Iodomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-016
**Client Sample ID:** SCI-8A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 14:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Methylacrylate | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Naphthalene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| n-Heptane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| n-Hexane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Nitrobenzene | NELAP | 90.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Propionitrile | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| tert-Butyl alcohol | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Tetrahydrofuran | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| TPH - GRO (C6 - C10) | | 453 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Vinyl acetate | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:30 | 115071 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **112.5** | %REC | 1 | 12/18/2015 19:30 | 115071 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.9** | %REC | 1 | 12/18/2015 19:30 | 115071 |
| Surr: Toluene-d8 | | 86-116 | | **101.3** | %REC | 1 | 12/18/2015 19:30 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-017
**Client Sample ID:** SCI-8B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 14:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.8** | % | 1 | 12/21/2015 20:42 | R212974 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **7.57** | mg/Kg-dry | 1 | 12/22/2015 13:56 | 115115 |
| Barium | NELAP | 0.25 | | **104** | mg/Kg-dry | 1 | 12/22/2015 13:56 | 115115 |
| Cadmium | NELAP | 0.20 | J | **0.13** | mg/Kg-dry | 1 | 12/22/2015 13:56 | 115115 |
| Chromium | NELAP | 0.49 | | **19.1** | mg/Kg-dry | 1 | 12/22/2015 13:56 | 115115 |
| Lead | NELAP | 1.47 | | **9.70** | mg/Kg-dry | 1 | 12/22/2015 13:56 | 115115 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 12/22/2015 13:56 | 115115 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 12/22/2015 13:56 | 115115 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.025** | mg/Kg-dry | 1 | 12/22/2015 11:20 | 115122 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:17 | 115104 |
| Anthracene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:17 | 115104 |
| Benzo(a)anthracene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:17 | 115104 |
| Benzo(a)pyrene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:17 | 115104 |
| Benzo(b)fluoranthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:17 | 115104 |
| Benzo(k)fluoranthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:17 | 115104 |
| Chrysene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:17 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:17 | 115104 |
| Fluoranthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:17 | 115104 |
| Fluorene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:17 | 115104 |
| Pyrene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:17 | 115104 |
| TPH-DRO (C10 - C21) | | 15.0 | J | **7.8** | mg/Kg-dry | 1 | 12/21/2015 19:17 | 115104 |
| TPH-ORO (C21 - C35) | | 15.0 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 19:17 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **67.0** | %REC | 1 | 12/21/2015 19:17 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **60.8** | %REC | 1 | 12/21/2015 19:17 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **83.1** | %REC | 1 | 12/21/2015 19:17 | 115104 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,1-Dichloro-2-propanone | | 46.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,2,3-Trichloropropane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

**Lab ID:** 15121344-017 **Client Sample ID:** SCI-8B (16-20)

**Matrix:** SOLID **Collection Date:** 12/17/2015 14:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 2-Butanone | NELAP | 46.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 2-Hexanone | NELAP | 46.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 2-Nitropropane | NELAP | 46.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| 4-Methyl-2-pentanone | NELAP | 46.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Acetone | NELAP | 46.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Acetonitrile | NELAP | 93.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Acrolein | NELAP | 93.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Acrylonitrile | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Bromomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Chloroethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Chloromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Cyclohexanone | | 93.1 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Dichlorodifluoromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Iodomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Methacrylonitrile | NELAP | 46.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-017
**Client Sample ID:** SCI-8B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 14:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Methylacrylate | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Naphthalene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| n-Heptane | | 18.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| n-Hexane | | 18.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Nitrobenzene | NELAP | 93.1 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Propionitrile | NELAP | 46.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| tert-Butyl alcohol | NELAP | 46.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Tetrahydrofuran | NELAP | 46.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| TPH - GRO (C6 - C10) | | 465 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Vinyl acetate | NELAP | 46.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 19:56 | 115071 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **106.3** | %REC | 1 | 12/18/2015 19:56 | 115071 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.5** | %REC | 1 | 12/18/2015 19:56 | 115071 |
| Surr: Toluene-d8 | | 86-116 | | **102.3** | %REC | 1 | 12/18/2015 19:56 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-018
**Client Sample ID:** SCI-9A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.3** | % | 1 | 12/21/2015 20:43 | R212974 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **10.3** | mg/Kg-dry | 1 | 12/22/2015 15:29 | 115115 |
| Barium | NELAP | 0.25 | | **195** | mg/Kg-dry | 1 | 12/22/2015 15:29 | 115115 |
| Cadmium | NELAP | 0.20 | J | **0.13** | mg/Kg-dry | 1 | 12/22/2015 15:29 | 115115 |
| Chromium | NELAP | 0.49 | | **20.0** | mg/Kg-dry | 1 | 12/22/2015 15:29 | 115115 |
| Lead | NELAP | 1.47 | | **15.3** | mg/Kg-dry | 1 | 12/22/2015 15:29 | 115115 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 12/22/2015 15:29 | 115115 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 12/22/2015 15:29 | 115115 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.149** | mg/Kg-dry | 1 | 12/22/2015 11:23 | 115122 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0416 | J | **0.023** | mg/Kg-dry | 1 | 12/22/2015 1:45 | 115104 |
| Anthracene | NELAP | 0.0416 | J | **0.038** | mg/Kg-dry | 1 | 12/22/2015 1:45 | 115104 |
| Benzo(a)anthracene | NELAP | 0.0416 | | **0.175** | mg/Kg-dry | 1 | 12/22/2015 1:45 | 115104 |
| Benzo(a)pyrene | NELAP | 0.0416 | | **0.141** | mg/Kg-dry | 1 | 12/22/2015 1:45 | 115104 |
| Benzo(b)fluoranthene | NELAP | 0.0416 | | **0.207** | mg/Kg-dry | 1 | 12/22/2015 1:45 | 115104 |
| Benzo(k)fluoranthene | NELAP | 0.0416 | | **0.0686** | mg/Kg-dry | 1 | 12/22/2015 1:45 | 115104 |
| Chrysene | NELAP | 0.0416 | | **0.166** | mg/Kg-dry | 1 | 12/22/2015 1:45 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 1:45 | 115104 |
| Fluoranthene | NELAP | 0.0416 | | **0.346** | mg/Kg-dry | 1 | 12/22/2015 1:45 | 115104 |
| Fluorene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 1:45 | 115104 |
| Pyrene | NELAP | 0.0416 | | **0.289** | mg/Kg-dry | 1 | 12/22/2015 1:45 | 115104 |
| TPH-DRO (C10 - C21) | | 14.7 | J | **11** | mg/Kg-dry | 1 | 12/22/2015 1:45 | 115104 |
| TPH-ORO (C21 - C35) | | 14.7 | J | **9.5** | mg/Kg-dry | 1 | 12/22/2015 1:45 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **66.3** | %REC | 1 | 12/22/2015 1:45 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **59.7** | %REC | 1 | 12/22/2015 1:45 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **81.1** | %REC | 1 | 12/22/2015 1:45 | 115104 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,1,1-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,1,2-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,1-Dichloro-2-propanone | | 48.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,1-Dichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,1-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,1-Dichloropropene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,2,3-Trichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,2,3-Trichloropropane | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,2,3-Trimethylbenzene | | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,2,4-Trichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,2,4-Trimethylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,2-Dibromoethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,2-Dichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,2-Dichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-018
**Client Sample ID:** SCI-9A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,3,5-Trimethylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,3-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,3-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1,4-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 1-Chlorobutane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 2,2-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 2-Butanone | NELAP | 48.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 2-Chlorotoluene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 2-Hexanone | NELAP | 48.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 2-Nitropropane | NELAP | 48.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 4-Chlorotoluene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| 4-Methyl-2-pentanone | NELAP | 48.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Acetone | NELAP | 48.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Acetonitrile | NELAP | 96.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Acrolein | NELAP | 96.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Acrylonitrile | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Allyl chloride | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Bromobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Bromochloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Bromodichloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Bromoform | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Bromomethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Carbon disulfide | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Carbon tetrachloride | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Chlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Chloroethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Chloroform | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Chloromethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| cis-1,2-Dichloroethene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| cis-1,3-Dichloropropene | NELAP | 3.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Cyclohexanone | | 96.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Dibromochloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Dibromomethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Dichlorodifluoromethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Diisopropyl ether | | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Ethyl ether | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Ethyl methacrylate | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Ethylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Ethyl-tert-butyl ether | | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Hexachlorobutadiene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Hexachloroethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Iodomethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Isopropylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| m,p-Xylenes | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Methacrylonitrile | NELAP | 48.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-018
**Client Sample ID:** SCI-9A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Methylacrylate | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Methylene chloride | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Naphthalene | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| n-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| n-Heptane | | 19.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| n-Hexane | | 19.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Nitrobenzene | NELAP | 96.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| n-Propylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| o-Xylene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Pentachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| p-Isopropyltoluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Propionitrile | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| sec-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Styrene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| tert-Amyl methyl ether | | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| tert-Butyl alcohol | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| tert-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Tetrachloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Tetrahydrofuran | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Toluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| TPH - GRO (C6 - C10) | | 483 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| trans-1,2-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| trans-1,3-Dichloropropene | NELAP | 3.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Trichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Trichlorofluoromethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Vinyl acetate | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Xylenes, Total | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 12:53 | 115071 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.9** | %REC | 1 | 12/18/2015 12:53 | 115071 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.8** | %REC | 1 | 12/18/2015 12:53 | 115071 |
| Surr: Toluene-d8 | | 86-116 | | **102.4** | %REC | 1 | 12/18/2015 12:53 | 115071 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

**Lab ID:** 15121344-019 **Client Sample ID:** SCI-9B (16-20)

**Matrix:** SOLID **Collection Date:** 12/17/2015 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **23.7** | % | 1 | 12/21/2015 20:43 | R212974 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **9.13** | mg/Kg-dry | 1 | 12/22/2015 14:16 | 115115 |
| Barium | NELAP | 0.25 | | **140** | mg/Kg-dry | 1 | 12/22/2015 14:16 | 115115 |
| Cadmium | NELAP | 0.20 | | **0.21** | mg/Kg-dry | 1 | 12/22/2015 14:16 | 115115 |
| Chromium | NELAP | 0.49 | | **31.1** | mg/Kg-dry | 1 | 12/22/2015 14:16 | 115115 |
| Lead | NELAP | 1.47 | | **11.8** | mg/Kg-dry | 1 | 12/22/2015 14:16 | 115115 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 12/22/2015 14:16 | 115115 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 12/22/2015 14:16 | 115115 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.024** | mg/Kg-dry | 1 | 12/22/2015 11:25 | 115122 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0444 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:18 | 115104 |
| Anthracene | NELAP | 0.0444 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:18 | 115104 |
| Benzo(a)anthracene | NELAP | 0.0444 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:18 | 115104 |
| Benzo(a)pyrene | NELAP | 0.0444 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:18 | 115104 |
| Benzo(b)fluoranthene | NELAP | 0.0444 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:18 | 115104 |
| Benzo(k)fluoranthene | NELAP | 0.0444 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:18 | 115104 |
| Chrysene | NELAP | 0.0444 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:18 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 0.0444 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:18 | 115104 |
| Fluoranthene | NELAP | 0.0444 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:18 | 115104 |
| Fluorene | NELAP | 0.0444 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:18 | 115104 |
| Pyrene | NELAP | 0.0444 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:18 | 115104 |
| TPH-DRO (C10 - C21) | | 15.7 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:18 | 115104 |
| TPH-ORO (C21 - C35) | | 15.7 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 18:18 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **70.1** | %REC | 1 | 12/21/2015 18:18 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **64.2** | %REC | 1 | 12/21/2015 18:18 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **84.0** | %REC | 1 | 12/21/2015 18:18 | 115104 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,1-Dichloro-2-propanone | | 47.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,2,3-Trichloropropane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

**Lab ID:** 15121344-019 **Client Sample ID:** SCI-9B (16-20)

**Matrix:** SOLID **Collection Date:** 12/17/2015 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 2-Butanone | NELAP | 47.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 2-Hexanone | NELAP | 47.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 2-Nitropropane | NELAP | 47.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| 4-Methyl-2-pentanone | NELAP | 47.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Acetone | NELAP | 47.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Acetonitrile | NELAP | 94.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Acrolein | NELAP | 94.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Acrylonitrile | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Bromomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Chloroethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Chloromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Cyclohexanone | | 94.5 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Dichlorodifluoromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Iodomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Methacrylonitrile | NELAP | 47.3 | | ND | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121344
**Client Project:** NGA 2015-0461.21
**Report Date:** 23-Dec-15
**Lab ID:** 15121344-019
**Client Sample ID:** SCI-9B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/17/2015 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Methylacrylate | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Methylene chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Naphthalene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| n-Heptane | | 18.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| n-Hexane | | 18.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Nitrobenzene | NELAP | 94.5 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Propionitrile | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| tert-Butyl alcohol | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Tetrahydrofuran | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| TPH - GRO (C6 - C10) | | 473 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Vinyl acetate | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/18/2015 13:20 | 115071 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **99.5** | %REC | 1 | 12/18/2015 13:20 | 115071 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **104.5** | %REC | 1 | 12/18/2015 13:20 | 115071 |
| Surr: Toluene-d8 | | 86-116 | | **102.1** | %REC | 1 | 12/18/2015 13:20 | 115071 |

# Quality Control Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344
**Report Date:** 23-Dec-15

## EPA SW846 3550C, 5035A, ASTM D2974

**Batch** R212974 **SampType:** LCS Units **%**
SampID: LCS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 12/21/2015 |

**Batch** R212974 **SampType:** LCSQC Units **%**
SampID: LCSQC

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 12/21/2015 |

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115115 **SampType:** MBLK Units **mg/Kg-dry**
SampID: MBLK-115115

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 12/22/2015 |
| Barium | 0.25 | | **< 0.25** | 0.2500 | 0 | 0 | -100 | 100 | 12/22/2015 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 12/22/2015 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 12/22/2015 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 12/22/2015 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 12/22/2015 |
| Silver | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 12/22/2015 |

**Batch** 115115 **SampType:** LCS Units **mg/Kg-dry**
SampID: LCS-115115

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **47.3** | 50.00 | 0 | 94.6 | 85 | 115 | 12/22/2015 |
| Barium | 0.25 | | **196** | 200.0 | 0 | 97.9 | 85 | 115 | 12/22/2015 |
| Cadmium | 0.20 | | **4.83** | 5.000 | 0 | 96.6 | 85 | 115 | 12/22/2015 |
| Chromium | 0.50 | | **20.8** | 20.00 | 0 | 103.9 | 85 | 115 | 12/22/2015 |
| Lead | 1.50 | | **52.2** | 50.00 | 0 | 104.4 | 85 | 115 | 12/22/2015 |
| Selenium | 4.00 | | **49.8** | 50.00 | 0 | 99.7 | 85 | 115 | 12/23/2015 |
| Selenium | 4.00 | | **48.4** | 50.00 | 0 | 96.8 | 85 | 115 | 12/22/2015 |
| Silver | 0.50 | | **4.74** | 5.000 | 0 | 94.8 | 85 | 115 | 12/22/2015 |

**Batch** 115115 **SampType:** MS Units **mg/Kg-dry**
SampID: 15121344-013AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.36 | | **49.5** | 47.17 | 7.792 | 88.5 | 75 | 125 | 12/22/2015 |
| Barium | 0.24 | | **280** | 188.7 | 102.8 | 93.6 | 75 | 125 | 12/22/2015 |
| Cadmium | 0.19 | | **4.59** | 4.717 | 0.06604 | 96.0 | 75 | 125 | 12/22/2015 |
| Chromium | 0.47 | | **50.1** | 18.87 | 31.85 | 96.8 | 75 | 125 | 12/22/2015 |
| Lead | 1.42 | | **63.2** | 47.17 | 14.99 | 102.1 | 75 | 125 | 12/22/2015 |
| Selenium | 3.77 | | **41.8** | 47.17 | 0 | 88.6 | 75 | 125 | 12/22/2015 |
| Silver | 0.47 | | **4.26** | 4.717 | 0 | 90.4 | 75 | 125 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115115 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**

SampID: 15121344-013AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.36 | | **49.3** | 47.17 | 7.792 | 88.1 | 49.54 | 0.42 | 12/22/2015 |
| Barium | 0.24 | | **284** | 188.7 | 102.8 | 95.9 | 279.5 | 1.51 | 12/22/2015 |
| Cadmium | 0.19 | | **4.56** | 4.717 | 0.06604 | 95.2 | 4.594 | 0.82 | 12/22/2015 |
| Chromium | 0.47 | | **50.6** | 18.87 | 31.85 | 99.2 | 50.12 | 0.86 | 12/22/2015 |
| Lead | 1.42 | | **62.4** | 47.17 | 14.99 | 100.5 | 63.16 | 1.19 | 12/22/2015 |
| Selenium | 3.77 | | **40.8** | 47.17 | 0 | 86.6 | 41.81 | 2.33 | 12/22/2015 |
| Silver | 0.47 | | **4.25** | 4.717 | 0 | 90.2 | 4.264 | 0.22 | 12/22/2015 |

## SW-846 7471B

**Batch** 115122 **SampType:** MBLK Units **mg/Kg**

SampID: MBLK-115122

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **< 0.010** | 0.01000 | 0 | 0 | -100 | 100 | 12/22/2015 |

**Batch** 115122 **SampType:** LCS Units **mg/Kg**

SampID: LCS-115122

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.245** | 0.2500 | 0 | 98.0 | 85 | 115 | 12/22/2015 |

**Batch** 115122 **SampType:** MS Units **mg/Kg-dry**

SampID: 15120711-001AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.013 | | **0.402** | 0.3145 | 0.05803 | 109.4 | 75 | 125 | 12/22/2015 |

**Batch** 115122 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **15**

SampID: 15120711-001AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.013 | | **0.378** | 0.3145 | 0.05803 | 101.7 | 0.4021 | 6.17 | 12/22/2015 |

**Batch** 115122 **SampType:** MS Units **mg/Kg-dry**

SampID: 15121344-009AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.323** | 0.2956 | 0.02659 | 100.2 | 75 | 125 | 12/22/2015 |

**Batch** 115122 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **15**

SampID: 15121344-009AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.326** | 0.2956 | 0.02659 | 101.1 | 0.3227 | 0.87 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115104 **SampType:** MBLK Units **mg/Kg**

SampID: MBLK-115104

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Anthracene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(a)anthracene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(a)pyrene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(b)fluoranthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(k)fluoranthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Chrysene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Dibenzo(a,h)anthracene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Fluoranthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Fluorene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Pyrene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| TPH-DRO (C10 - C21) | 12.0 | J | **6.2** | | | | | | 12/21/2015 |
| TPH-ORO (C21 - C35) | 12.0 | | **ND** | | | | | | 12/21/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.716** | 0.8350 | | 85.7 | 42.6 | 97.2 | 12/21/2015 |
| Surr: Nitrobenzene-d5 | | | **0.643** | 0.8350 | | 77.0 | 16.7 | 118 | 12/21/2015 |
| Surr: p-Terphenyl-d14 | | | **0.812** | 0.8350 | | 97.3 | 50.1 | 111 | 12/21/2015 |

**Batch** 115104 **SampType:** LCS Units **mg/Kg**

SampID: LCS-115104

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **1.12** | 1.670 | 0 | 67.1 | 56.4 | 104 | 12/21/2015 |
| Anthracene | 0.0340 | | **1.10** | 1.670 | 0 | 66.0 | 55.9 | 101 | 12/21/2015 |
| Benzo(a)anthracene | 0.0340 | | **1.13** | 1.670 | 0 | 67.5 | 51.7 | 107 | 12/21/2015 |
| Benzo(a)pyrene | 0.0340 | | **1.23** | 1.670 | 0 | 73.7 | 57.2 | 114 | 12/21/2015 |
| Benzo(b)fluoranthene | 0.0340 | | **1.22** | 1.670 | 0 | 73.2 | 45.3 | 116 | 12/21/2015 |
| Benzo(k)fluoranthene | 0.0340 | | **1.33** | 1.670 | 0 | 79.7 | 58.2 | 114 | 12/21/2015 |
| Chrysene | 0.0340 | | **1.22** | 1.670 | 0 | 73.3 | 58.9 | 102 | 12/21/2015 |
| Dibenzo(a,h)anthracene | 0.0340 | | **0.964** | 1.670 | 0 | 57.7 | 48.9 | 123 | 12/21/2015 |
| Fluoranthene | 0.0340 | | **1.17** | 1.670 | 0 | 69.9 | 54.9 | 108 | 12/21/2015 |
| Fluorene | 0.0340 | | **1.08** | 1.670 | 0 | 65.0 | 58 | 101 | 12/21/2015 |
| Pyrene | 0.0340 | | **1.19** | 1.670 | 0 | 71.2 | 53.4 | 107 | 12/21/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.524** | 0.8350 | | 62.8 | 42.6 | 97.2 | 12/21/2015 |
| Surr: Nitrobenzene-d5 | | | **0.660** | 0.8350 | | 79.1 | 16.7 | 118 | 12/21/2015 |
| Surr: p-Terphenyl-d14 | | | **0.629** | 0.8350 | | 75.3 | 50.1 | 111 | 12/21/2015 |

**Batch** 115104 **SampType:** LCSG Units **mg/Kg**

SampID: LCSDRO-115104

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 12.0 | | **23.5** | 33.40 | 0 | 70.5 | 53.7 | 103 | 12/21/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.619** | 0.8350 | | 74.1 | 42.6 | 97.2 | 12/21/2015 |
| Surr: Nitrobenzene-d5 | | | **0.539** | 0.8350 | | 64.6 | 16.7 | 118 | 12/21/2015 |
| Surr: p-Terphenyl-d14 | | | **0.694** | 0.8350 | | 83.1 | 50.1 | 111 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115104** **SampType: MS** Units **mg/Kg-dry**

SampID: 15121344-010AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 144 | S | **340** | 39.98 | 367.9 | -68.6 | 34.5 | 160 | 12/22/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.682** | 0.9996 | | 68.3 | 12 | 133 | 12/22/2015 |
| Surr: Nitrobenzene-d5 | | | **0.615** | 0.9996 | | 61.5 | 30.9 | 115 | 12/22/2015 |
| Surr: p-Terphenyl-d14 | | | **0.874** | 0.9996 | | 87.4 | 31.5 | 137 | 12/22/2015 |

**Batch 115104** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **30**

SampID: 15121344-010AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 144 | SR | **247** | 40.00 | 367.9 | -303.2 | 340.5 | 31.98 | 12/22/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.647** | 0.9999 | | 64.7 | | | 12/22/2015 |
| Surr: Nitrobenzene-d5 | | | **0.603** | 0.9999 | | 60.3 | | | 12/22/2015 |
| Surr: p-Terphenyl-d14 | | | **0.858** | 0.9999 | | 85.8 | | | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115069** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-F151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/18/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/18/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/18/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/18/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/18/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/18/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/18/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/18/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/18/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/18/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/18/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/18/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/18/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344
**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115069** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-F151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/18/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/18/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/18/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/18/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/18/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/18/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/18/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/18/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/18/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/18/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/18/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/18/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/18/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/18/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/18/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/18/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/18/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/18/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/18/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115069** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-F151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/18/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/18/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.1** | 50.00 | | 98.2 | 72.2 | 131 | 12/18/2015 |
| Surr: 4-Bromofluorobenzene | | | **53.0** | 50.00 | | 106.1 | 82.1 | 116 | 12/18/2015 |
| Surr: Toluene-d8 | | | **51.0** | 50.00 | | 102.0 | 86 | 116 | 12/18/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115069** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 53.63 | 0.50 | 12/18/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **53.3** | 50.00 | 0 | 106.7 | 53.23 | 0.21 | 12/18/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 49.96 | 0.86 | 12/18/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 51.75 | 0.97 | 12/18/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **50.5** | 50.00 | 0 | 101.1 | 50.63 | 0.18 | 12/18/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **124** | 125.0 | 0 | 98.9 | 137.5 | 10.63 | 12/18/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.1 | 53.59 | 0.04 | 12/18/2015 |
| 1,1-Dichloroethene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 53.46 | 0.09 | 12/18/2015 |
| 1,1-Dichloropropene | 5.0 | | **54.8** | 50.00 | 0 | 109.5 | 54.29 | 0.84 | 12/18/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 54.76 | 2.35 | 12/18/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **49.9** | 50.00 | 0 | 99.7 | 50.41 | 1.08 | 12/18/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 52.71 | 0.21 | 12/18/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 56.70 | 6.65 | 12/18/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 53.95 | 0.55 | 12/18/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 50.47 | 4.02 | 12/18/2015 |
| 1,2-Dibromoethane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 50.24 | 0.73 | 12/18/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 53.27 | 3.05 | 12/18/2015 |
| 1,2-Dichloroethane | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 52.92 | 0.04 | 12/18/2015 |
| 1,2-Dichloropropane | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 51.55 | 1.69 | 12/18/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 54.97 | 0.64 | 12/18/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 53.84 | 3.11 | 12/18/2015 |
| 1,3-Dichloropropane | 5.0 | | **52.0** | 50.00 | 0 | 103.9 | 51.07 | 1.75 | 12/18/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 53.88 | 3.22 | 12/18/2015 |
| 1-Chlorobutane | 5.0 | | **54.4** | 50.00 | 0 | 108.9 | 53.65 | 1.46 | 12/18/2015 |
| 2,2-Dichloropropane | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 52.41 | 0.44 | 12/18/2015 |
| 2-Butanone | 50.0 | S | **174** | 125.0 | 0 | 139.3 | 177.9 | 2.14 | 12/18/2015 |
| 2-Chlorotoluene | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 53.54 | 0.81 | 12/18/2015 |
| 2-Hexanone | 50.0 | S | **159** | 125.0 | 0 | 127.5 | 162.7 | 2.02 | 12/18/2015 |
| 2-Nitropropane | 50.0 | | **524** | 500.0 | 0 | 104.7 | 545.1 | 4.02 | 12/18/2015 |
| 4-Chlorotoluene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 54.44 | 1.28 | 12/18/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **131** | 125.0 | 0 | 105.1 | 132.1 | 0.53 | 12/18/2015 |
| Acetone | 50.0 | S | **245** | 125.0 | 0 | 196.3 | 252.5 | 2.85 | 12/18/2015 |
| Acetonitrile | 100 | | **523** | 500.0 | 0 | 104.6 | 550.2 | 5.04 | 12/18/2015 |
| Acrolein | 100 | | **505** | 500.0 | 0 | 101.0 | 530.1 | 4.87 | 12/18/2015 |
| Acrylonitrile | 10.0 | | **50.9** | 50.00 | 0 | 101.8 | 52.51 | 3.13 | 12/18/2015 |
| Allyl chloride | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 53.44 | 1.20 | 12/18/2015 |
| Benzene | 1.0 | | **53.3** | 50.00 | 0 | 106.5 | 53.21 | 0.11 | 12/18/2015 |
| Bromobenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 50.84 | 1.95 | 12/18/2015 |
| Bromochloromethane | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 53.88 | 0.69 | 12/18/2015 |
| Bromodichloromethane | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 52.41 | 0.52 | 12/18/2015 |
| Bromoform | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 50.20 | 1.07 | 12/18/2015 |
| Bromomethane | 10.0 | | **38.9** | 50.00 | 0 | 77.9 | 30.86 | 23.13 | 12/18/2015 |
| Carbon disulfide | 5.0 | | **49.9** | 50.00 | 0 | 99.7 | 49.91 | 0.10 | 12/18/2015 |
| Carbon tetrachloride | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 54.56 | 0.50 | 12/18/2015 |
| Chlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 51.29 | 2.33 | 12/18/2015 |
| Chloroethane | 10.0 | | **44.3** | 50.00 | 0 | 88.7 | 43.52 | 1.87 | 12/18/2015 |
| Chloroform | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 52.81 | 0.21 | 12/18/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344

**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115069** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **39.4** | 50.00 | 0 | 78.8 | 38.70 | 1.77 | 12/18/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 53.70 | 0.04 | 12/18/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **53.8** | 50.00 | 0 | 107.6 | 53.51 | 0.52 | 12/18/2015 |
| Cyclohexanone | 100 | | **461** | 500.0 | 0 | 92.3 | 487.9 | 5.56 | 12/18/2015 |
| Dibromochloromethane | 5.0 | | **52.0** | 50.00 | 0 | 103.9 | 51.36 | 1.18 | 12/18/2015 |
| Dibromomethane | 5.0 | | **51.9** | 50.00 | 0 | 103.9 | 53.03 | 2.08 | 12/18/2015 |
| Dichlorodifluoromethane | 10.0 | | **32.4** | 50.00 | 0 | 64.7 | 33.58 | 3.70 | 12/18/2015 |
| Diisopropyl ether | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 51.86 | 0.84 | 12/18/2015 |
| Ethyl ether | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 49.08 | 0.67 | 12/18/2015 |
| Ethyl methacrylate | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 52.92 | 0.30 | 12/18/2015 |
| Ethylbenzene | 5.0 | | **55.2** | 50.00 | 0 | 110.4 | 54.71 | 0.89 | 12/18/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 51.70 | 0.27 | 12/18/2015 |
| Hexachlorobutadiene | 5.0 | | **50.4** | 50.00 | 0 | 100.9 | 54.42 | 7.57 | 12/18/2015 |
| Hexachloroethane | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 52.57 | 0.73 | 12/18/2015 |
| Iodomethane | 10.0 | | **45.5** | 50.00 | 0 | 90.9 | 45.59 | 0.29 | 12/18/2015 |
| Isopropylbenzene | 5.0 | | **54.0** | 50.00 | 0 | 107.9 | 53.55 | 0.76 | 12/18/2015 |
| m,p-Xylenes | 5.0 | | **110** | 100.0 | 0 | 110.1 | 110.8 | 0.62 | 12/18/2015 |
| Methacrylonitrile | 50.0 | | **53.5** | 50.00 | 0 | 107.1 | 53.73 | 0.35 | 12/18/2015 |
| Methyl Methacrylate | 5.0 | | **52.6** | 50.00 | 0 | 105.1 | 53.95 | 2.63 | 12/18/2015 |
| Methyl tert-butyl ether | 2.0 | | **51.7** | 50.00 | 0 | 103.5 | 52.20 | 0.89 | 12/18/2015 |
| Methylacrylate | 10.0 | | **54.4** | 50.00 | 0 | 108.8 | 54.65 | 0.48 | 12/18/2015 |
| Methylene chloride | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 52.20 | 0.97 | 12/18/2015 |
| Naphthalene | 10.0 | | **51.1** | 50.00 | 0 | 102.2 | 52.51 | 2.76 | 12/18/2015 |
| n-Butylbenzene | 5.0 | | **56.8** | 50.00 | 0 | 113.5 | 58.52 | 3.07 | 12/18/2015 |
| n-Heptane | 20.0 | | **53.9** | 50.00 | 0 | 107.9 | 56.02 | 3.78 | 12/18/2015 |
| n-Hexane | 20.0 | | **52.0** | 50.00 | 0 | 103.9 | 54.87 | 5.43 | 12/18/2015 |
| Nitrobenzene | 100 | | **455** | 500.0 | 0 | 90.9 | 493.4 | 8.20 | 12/18/2015 |
| n-Propylbenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.1 | 54.82 | 1.40 | 12/18/2015 |
| o-Xylene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 53.20 | 0.58 | 12/18/2015 |
| Pentachloroethane | 5.0 | | **43.4** | 50.00 | 0 | 86.7 | 48.09 | 10.37 | 12/18/2015 |
| p-Isopropyltoluene | 5.0 | | **55.9** | 50.00 | 0 | 111.8 | 56.54 | 1.12 | 12/18/2015 |
| Propionitrile | 50.0 | | **526** | 500.0 | 0 | 105.2 | 536.5 | 2.02 | 12/18/2015 |
| sec-Butylbenzene | 5.0 | | **55.2** | 50.00 | 0 | 110.3 | 54.81 | 0.62 | 12/18/2015 |
| Styrene | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 52.73 | 0.59 | 12/18/2015 |
| tert-Amyl methyl ether | 5.0 | | **51.3** | 50.00 | 0 | 102.5 | 51.35 | 0.18 | 12/18/2015 |
| tert-Butyl alcohol | 50.0 | | **241** | 250.0 | 0 | 96.4 | 254.8 | 5.54 | 12/18/2015 |
| tert-Butylbenzene | 5.0 | | **49.2** | 50.00 | 0 | 98.5 | 60.94 | 21.22 | 12/18/2015 |
| Tetrachloroethene | 5.0 | | **59.8** | 50.00 | 0 | 119.6 | 54.95 | 8.45 | 12/18/2015 |
| Tetrahydrofuran | 50.0 | | **51.2** | 50.00 | 0 | 102.3 | 53.26 | 4.02 | 12/18/2015 |
| Toluene | 5.0 | | **53.0** | 50.00 | 0 | 106.0 | 52.17 | 1.62 | 12/18/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **55.4** | 50.00 | 0 | 110.7 | 54.94 | 0.76 | 12/18/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **54.1** | 50.00 | 0 | 108.1 | 53.52 | 1.02 | 12/18/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **47.2** | 50.00 | 0 | 94.4 | 47.51 | 0.61 | 12/18/2015 |
| Trichloroethene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 52.66 | 1.36 | 12/18/2015 |
| Trichlorofluoromethane | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 51.64 | 0.66 | 12/18/2015 |
| Vinyl acetate | 50.0 | J | **40** | 50.00 | 0 | 79.7 | 36.03 | 0.00 | 12/18/2015 |
| Vinyl chloride | 2.0 | | **45.6** | 50.00 | 0 | 91.3 | 45.67 | 0.09 | 12/18/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344
**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115069** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **163** | 150.0 | 0 | 108.7 | 164.0 | 0.61 | 12/18/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **52.2** | 50.00 | | 104.5 | | | 12/18/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.1** | 50.00 | | 100.2 | | | 12/18/2015 |
| Surr: Toluene-d8 | | | **50.1** | 50.00 | | 100.2 | | | 12/18/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344

**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115069** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-F151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 83.1 | 114 | 12/18/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 78.5 | 119 | 12/18/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 67.4 | 120 | 12/18/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 75.4 | 121 | 12/18/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.3 | 81.1 | 111 | 12/18/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **138** | 125.0 | 0 | 110.0 | 55.4 | 131 | 12/18/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 80.1 | 116 | 12/18/2015 |
| 1,1-Dichloroethene | 5.0 | | **53.5** | 50.00 | 0 | 106.9 | 73.1 | 121 | 12/18/2015 |
| 1,1-Dichloropropene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 82.2 | 114 | 12/18/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **54.8** | 50.00 | 0 | 109.5 | 81.7 | 130 | 12/18/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **50.4** | 50.00 | 0 | 100.8 | 67.8 | 118 | 12/18/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 82.1 | 127 | 12/18/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **56.7** | 50.00 | 0 | 113.4 | 72.3 | 141 | 12/18/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **54.0** | 50.00 | 0 | 107.9 | 79.7 | 123 | 12/18/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **50.5** | 50.00 | 0 | 100.9 | 62.1 | 123 | 12/18/2015 |
| 1,2-Dibromoethane | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 82.4 | 112 | 12/18/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 82.7 | 119 | 12/18/2015 |
| 1,2-Dichloroethane | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 72.8 | 120 | 12/18/2015 |
| 1,2-Dichloropropane | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 80 | 116 | 12/18/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **55.0** | 50.00 | 0 | 109.9 | 81.5 | 125 | 12/18/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **53.8** | 50.00 | 0 | 107.7 | 82 | 124 | 12/18/2015 |
| 1,3-Dichloropropane | 5.0 | | **51.1** | 50.00 | 0 | 102.1 | 79.8 | 113 | 12/18/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 81.1 | 124 | 12/18/2015 |
| 1-Chlorobutane | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 77.2 | 113 | 12/18/2015 |
| 2,2-Dichloropropane | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 76.6 | 121 | 12/18/2015 |
| 2-Butanone | 50.0 | S | **178** | 125.0 | 0 | 142.3 | 62.8 | 131 | 12/18/2015 |
| 2-Chlorotoluene | 5.0 | | **53.5** | 50.00 | 0 | 107.1 | 78.8 | 121 | 12/18/2015 |
| 2-Hexanone | 50.0 | S | **163** | 125.0 | 0 | 130.1 | 63.1 | 125 | 12/18/2015 |
| 2-Nitropropane | 50.0 | | **545** | 500.0 | 0 | 109.0 | 61.2 | 129 | 12/18/2015 |
| 4-Chlorotoluene | 5.0 | | **54.4** | 50.00 | 0 | 108.9 | 77.6 | 124 | 12/18/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **132** | 125.0 | 0 | 105.7 | 60.6 | 126 | 12/18/2015 |
| Acetone | 50.0 | S | **252** | 125.0 | 0 | 202.0 | 39.5 | 159 | 12/18/2015 |
| Acetonitrile | 100 | | **550** | 500.0 | 0 | 110.0 | 64.8 | 123 | 12/18/2015 |
| Acrolein | 100 | | **530** | 500.0 | 0 | 106.0 | 1 | 167 | 12/18/2015 |
| Acrylonitrile | 10.0 | | **52.5** | 50.00 | 0 | 105.0 | 67 | 124 | 12/18/2015 |
| Allyl chloride | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 58.5 | 129 | 12/18/2015 |
| Benzene | 1.0 | | **53.2** | 50.00 | 0 | 106.4 | 80.8 | 117 | 12/18/2015 |
| Bromobenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 79.6 | 117 | 12/18/2015 |
| Bromochloromethane | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 70.7 | 121 | 12/18/2015 |
| Bromodichloromethane | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 80.7 | 121 | 12/18/2015 |
| Bromoform | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 79.8 | 118 | 12/18/2015 |
| Bromomethane | 10.0 | | **30.9** | 50.00 | 0 | 61.7 | 1 | 175 | 12/18/2015 |
| Carbon disulfide | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 62.8 | 123 | 12/18/2015 |
| Carbon tetrachloride | 5.0 | | **54.6** | 50.00 | 0 | 109.1 | 77.6 | 123 | 12/18/2015 |
| Chlorobenzene | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 85.6 | 116 | 12/18/2015 |
| Chloroethane | 10.0 | | **43.5** | 50.00 | 0 | 87.0 | 60.2 | 125 | 12/18/2015 |
| Chloroform | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 77.9 | 116 | 12/18/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121344

**Client Project:** NGA 2015-0461.21

**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115069** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-F151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **38.7** | 50.00 | 0 | 77.4 | 29.9 | 157 | 12/18/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 80.1 | 116 | 12/18/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **53.5** | 50.00 | 0 | 107.0 | 80.5 | 121 | 12/18/2015 |
| Cyclohexanone | 100 | | **488** | 500.0 | 0 | 97.6 | 45.4 | 128 | 12/18/2015 |
| Dibromochloromethane | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 84.3 | 116 | 12/18/2015 |
| Dibromomethane | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 76.6 | 115 | 12/18/2015 |
| Dichlorodifluoromethane | 10.0 | | **33.6** | 50.00 | 0 | 67.2 | 1 | 200 | 12/18/2015 |
| Diisopropyl ether | 5.0 | | **51.9** | 50.00 | 0 | 103.7 | 73.6 | 119 | 12/18/2015 |
| Ethyl ether | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 73.4 | 116 | 12/18/2015 |
| Ethyl methacrylate | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 76.2 | 120 | 12/18/2015 |
| Ethylbenzene | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 84.8 | 116 | 12/18/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 73.8 | 119 | 12/18/2015 |
| Hexachlorobutadiene | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 74 | 135 | 12/18/2015 |
| Hexachloroethane | 5.0 | | **52.6** | 50.00 | 0 | 105.1 | 76.4 | 121 | 12/18/2015 |
| Iodomethane | 10.0 | | **45.6** | 50.00 | 0 | 91.2 | 38.7 | 161 | 12/18/2015 |
| Isopropylbenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.1 | 85 | 125 | 12/18/2015 |
| m,p-Xylenes | 5.0 | | **111** | 100.0 | 0 | 110.8 | 85.3 | 120 | 12/18/2015 |
| Methacrylonitrile | 50.0 | | **53.7** | 50.00 | 0 | 107.5 | 65.7 | 120 | 12/18/2015 |
| Methyl Methacrylate | 5.0 | | **54.0** | 50.00 | 0 | 107.9 | 69.1 | 114 | 12/18/2015 |
| Methyl tert-butyl ether | 2.0 | | **52.2** | 50.00 | 0 | 104.4 | 66.6 | 125 | 12/18/2015 |
| Methylacrylate | 10.0 | | **54.6** | 50.00 | 0 | 109.3 | 69.7 | 121 | 12/18/2015 |
| Methylene chloride | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 73.4 | 115 | 12/18/2015 |
| Naphthalene | 10.0 | | **52.5** | 50.00 | 0 | 105.0 | 70.1 | 134 | 12/18/2015 |
| n-Butylbenzene | 5.0 | | **58.5** | 50.00 | 0 | 117.0 | 78.4 | 138 | 12/18/2015 |
| n-Heptane | 20.0 | | **56.0** | 50.00 | 0 | 112.0 | 74.3 | 125 | 12/18/2015 |
| n-Hexane | 20.0 | | **54.9** | 50.00 | 0 | 109.7 | 66.3 | 129 | 12/18/2015 |
| Nitrobenzene | 100 | | **493** | 500.0 | 0 | 98.7 | 20.1 | 165 | 12/18/2015 |
| n-Propylbenzene | 5.0 | | **54.8** | 50.00 | 0 | 109.6 | 79.1 | 125 | 12/18/2015 |
| o-Xylene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 81.9 | 118 | 12/18/2015 |
| Pentachloroethane | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 72.7 | 123 | 12/18/2015 |
| p-Isopropyltoluene | 5.0 | | **56.5** | 50.00 | 0 | 113.1 | 82.7 | 129 | 12/18/2015 |
| Propionitrile | 50.0 | | **537** | 500.0 | 0 | 107.3 | 64.3 | 121 | 12/18/2015 |
| sec-Butylbenzene | 5.0 | | **54.8** | 50.00 | 0 | 109.6 | 81.3 | 125 | 12/18/2015 |
| Styrene | 5.0 | | **52.7** | 50.00 | 0 | 105.5 | 88.2 | 122 | 12/18/2015 |
| tert-Amyl methyl ether | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 74.5 | 120 | 12/18/2015 |
| tert-Butyl alcohol | 50.0 | | **255** | 250.0 | 0 | 101.9 | 51.3 | 129 | 12/18/2015 |
| tert-Butylbenzene | 5.0 | | **60.9** | 50.00 | 0 | 121.9 | 74.8 | 125 | 12/18/2015 |
| Tetrachloroethene | 5.0 | | **55.0** | 50.00 | 0 | 109.9 | 84.2 | 122 | 12/18/2015 |
| Tetrahydrofuran | 50.0 | | **53.3** | 50.00 | 0 | 106.5 | 61 | 118 | 12/18/2015 |
| Toluene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 81.3 | 113 | 12/18/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.9** | 50.00 | 0 | 109.9 | 78.2 | 118 | 12/18/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **53.5** | 50.00 | 0 | 107.0 | 81.7 | 124 | 12/18/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 63.9 | 117 | 12/18/2015 |
| Trichloroethene | 5.0 | | **52.7** | 50.00 | 0 | 105.3 | 81 | 123 | 12/18/2015 |
| Trichlorofluoromethane | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 66.8 | 131 | 12/18/2015 |
| Vinyl acetate | 50.0 | J | **36** | 50.00 | 0 | 72.1 | 64.3 | 122 | 12/18/2015 |
| Vinyl chloride | 2.0 | | **45.7** | 50.00 | 0 | 91.3 | 45.2 | 140 | 12/18/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115069 **SampType:** LCS Units **µg/Kg**

SampID: LCS-F151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **164** | 150.0 | 0 | 109.3 | 85.3 | 118 | 12/18/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **53.0** | 50.00 | | 106.0 | 72.2 | 131 | 12/18/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.0** | 50.00 | | 100.0 | 82.1 | 116 | 12/18/2015 |
| Surr: Toluene-d8 | | | **49.4** | 50.00 | | 98.8 | 86 | 116 | 12/18/2015 |

**Batch** 115069 **SampType:** LCSGD Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-F151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2030** | 2000 | 0 | 101.5 | 2166 | 6.47 | 12/18/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.6** | 50.00 | | 99.2 | | | 12/18/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.8** | 50.00 | | 101.5 | | | 12/18/2015 |
| Surr: Toluene-d8 | | | **51.6** | 50.00 | | 103.1 | | | 12/18/2015 |

**Batch** 115069 **SampType:** LCSG Units **µg/Kg**

SampID: LCSG-F151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2170** | 2000 | 0 | 108.3 | 70 | 130 | 12/18/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.4** | 50.00 | | 100.8 | 72.2 | 131 | 12/18/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.8** | 50.00 | | 101.6 | 82.1 | 116 | 12/18/2015 |
| Surr: Toluene-d8 | | | **51.2** | 50.00 | | 102.5 | 86 | 116 | 12/18/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344
**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115071** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-Y151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/18/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/18/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/18/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/18/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/18/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/18/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/18/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/18/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/18/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/18/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/18/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/18/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/18/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115071** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-Y151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/18/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/18/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/18/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/18/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/18/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/18/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/18/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/18/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/18/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/18/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/18/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/18/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/18/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/18/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/18/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/18/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/18/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/18/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/18/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/18/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115071** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-Y151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/18/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/18/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.5** | 50.00 | | 101.0 | 72.2 | 131 | 12/18/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.5** | 50.00 | | 101.1 | 82.1 | 116 | 12/18/2015 |
| Surr: Toluene-d8 | | | **51.1** | 50.00 | | 102.2 | 86 | 116 | 12/18/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344

**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115071** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-Y151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 45.43 | 8.57 | 12/18/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **49.7** | 50.00 | 0 | 99.5 | 44.04 | 12.16 | 12/18/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 47.17 | 8.27 | 12/18/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 46.62 | 8.37 | 12/18/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **48.2** | 50.00 | 0 | 96.3 | 43.46 | 10.26 | 12/18/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **123** | 125.0 | 0 | 98.8 | 115.7 | 6.45 | 12/18/2015 |
| 1,1-Dichloroethane | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 47.57 | 10.04 | 12/18/2015 |
| 1,1-Dichloroethene | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 48.13 | 9.52 | 12/18/2015 |
| 1,1-Dichloropropene | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 46.90 | 9.37 | 12/18/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 49.05 | 6.70 | 12/18/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **49.9** | 50.00 | 0 | 99.9 | 44.86 | 10.70 | 12/18/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 48.16 | 8.78 | 12/18/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.1 | 49.97 | 3.09 | 12/18/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 48.95 | 7.36 | 12/18/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 49.64 | 8.62 | 12/18/2015 |
| 1,2-Dibromoethane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 46.43 | 8.60 | 12/18/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 48.38 | 7.42 | 12/18/2015 |
| 1,2-Dichloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 45.33 | 10.37 | 12/18/2015 |
| 1,2-Dichloropropane | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 44.85 | 10.46 | 12/18/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.5 | 49.75 | 7.69 | 12/18/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 49.47 | 5.73 | 12/18/2015 |
| 1,3-Dichloropropane | 5.0 | | **48.5** | 50.00 | 0 | 96.9 | 44.10 | 9.42 | 12/18/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 49.04 | 4.54 | 12/18/2015 |
| 1-Chlorobutane | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 45.16 | 10.95 | 12/18/2015 |
| 2,2-Dichloropropane | 5.0 | | **50.3** | 50.00 | 0 | 100.7 | 45.56 | 9.95 | 12/18/2015 |
| 2-Butanone | 50.0 | | **142** | 125.0 | 0 | 113.6 | 127.0 | 11.11 | 12/18/2015 |
| 2-Chlorotoluene | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 47.94 | 6.42 | 12/18/2015 |
| 2-Hexanone | 50.0 | | **143** | 125.0 | 0 | 114.5 | 129.4 | 10.13 | 12/18/2015 |
| 2-Nitropropane | 50.0 | | **561** | 500.0 | 0 | 112.2 | 502.7 | 10.93 | 12/18/2015 |
| 4-Chlorotoluene | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 47.52 | 5.41 | 12/18/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **132** | 125.0 | 0 | 105.2 | 120.1 | 9.11 | 12/18/2015 |
| Acetone | 50.0 | | **147** | 125.0 | 0 | 117.3 | 129.6 | 12.27 | 12/18/2015 |
| Acetonitrile | 100 | | **538** | 500.0 | 0 | 107.6 | 493.1 | 8.68 | 12/18/2015 |
| Acrolein | 100 | | **558** | 500.0 | 0 | 111.5 | 461.8 | 18.82 | 12/18/2015 |
| Acrylonitrile | 10.0 | | **53.7** | 50.00 | 0 | 107.4 | 47.60 | 12.06 | 12/18/2015 |
| Allyl chloride | 5.0 | | **52.7** | 50.00 | 0 | 105.3 | 47.57 | 10.16 | 12/18/2015 |
| Benzene | 1.0 | | **51.2** | 50.00 | 0 | 102.5 | 46.09 | 10.56 | 12/18/2015 |
| Bromobenzene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 47.79 | 8.59 | 12/18/2015 |
| Bromochloromethane | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 47.39 | 9.07 | 12/18/2015 |
| Bromodichloromethane | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 45.41 | 10.57 | 12/18/2015 |
| Bromoform | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 48.44 | 6.53 | 12/18/2015 |
| Bromomethane | 10.0 | | **25.0** | 50.00 | 0 | 49.9 | 22.10 | 12.11 | 12/18/2015 |
| Carbon disulfide | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 48.39 | 10.77 | 12/18/2015 |
| Carbon tetrachloride | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 46.19 | 11.99 | 12/18/2015 |
| Chlorobenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 46.88 | 6.32 | 12/18/2015 |
| Chloroethane | 10.0 | | **48.7** | 50.00 | 0 | 97.5 | 43.88 | 10.49 | 12/18/2015 |
| Chloroform | 5.0 | | **51.9** | 50.00 | 0 | 103.7 | 46.37 | 11.18 | 12/18/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121344

**Client Project:** NGA 2015-0461.21

**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115071** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-Y151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **49.1** | 50.00 | 0 | 98.1 | 44.89 | 8.90 | 12/18/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 47.24 | 10.74 | 12/18/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **51.9** | 50.00 | 0 | 103.8 | 46.99 | 9.91 | 12/18/2015 |
| Cyclohexanone | 100 | | **515** | 500.0 | 0 | 103.1 | 474.4 | 8.29 | 12/18/2015 |
| Dibromochloromethane | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 47.30 | 8.60 | 12/18/2015 |
| Dibromomethane | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 47.46 | 10.08 | 12/18/2015 |
| Dichlorodifluoromethane | 10.0 | | **38.0** | 50.00 | 0 | 76.0 | 35.30 | 7.42 | 12/18/2015 |
| Diisopropyl ether | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 45.22 | 9.46 | 12/18/2015 |
| Ethyl ether | 5.0 | | **49.2** | 50.00 | 0 | 98.5 | 43.51 | 12.36 | 12/18/2015 |
| Ethyl methacrylate | 5.0 | | **53.5** | 50.00 | 0 | 107.1 | 48.59 | 9.69 | 12/18/2015 |
| Ethylbenzene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 47.13 | 6.47 | 12/18/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 45.74 | 10.82 | 12/18/2015 |
| Hexachlorobutadiene | 5.0 | | **55.2** | 50.00 | 0 | 110.4 | 52.49 | 5.03 | 12/18/2015 |
| Hexachloroethane | 5.0 | | **55.2** | 50.00 | 0 | 110.5 | 51.60 | 6.80 | 12/18/2015 |
| Iodomethane | 10.0 | | **46.2** | 50.00 | 0 | 92.4 | 40.92 | 12.12 | 12/18/2015 |
| Isopropylbenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 48.70 | 7.36 | 12/18/2015 |
| m,p-Xylenes | 5.0 | | **105** | 100.0 | 0 | 104.9 | 97.89 | 6.88 | 12/18/2015 |
| Methacrylonitrile | 50.0 | | **55.4** | 50.00 | 0 | 110.7 | 49.50 | 11.16 | 12/18/2015 |
| Methyl Methacrylate | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 45.90 | 11.29 | 12/18/2015 |
| Methyl tert-butyl ether | 2.0 | | **49.3** | 50.00 | 0 | 98.5 | 43.64 | 12.12 | 12/18/2015 |
| Methylacrylate | 10.0 | | **52.8** | 50.00 | 0 | 105.5 | 47.02 | 11.52 | 12/18/2015 |
| Methylene chloride | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 45.59 | 9.19 | 12/18/2015 |
| Naphthalene | 10.0 | | **55.0** | 50.00 | 0 | 110.0 | 50.64 | 8.22 | 12/18/2015 |
| n-Butylbenzene | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 51.66 | 5.31 | 12/18/2015 |
| n-Heptane | 20.0 | | **54.1** | 50.00 | 0 | 108.2 | 49.93 | 8.00 | 12/18/2015 |
| n-Hexane | 20.0 | | **53.3** | 50.00 | 0 | 106.7 | 48.50 | 9.49 | 12/18/2015 |
| Nitrobenzene | 100 | | **538** | 500.0 | 0 | 107.6 | 496.2 | 8.07 | 12/18/2015 |
| n-Propylbenzene | 5.0 | | **52.1** | 50.00 | 0 | 104.1 | 48.79 | 6.48 | 12/18/2015 |
| o-Xylene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 48.28 | 6.74 | 12/18/2015 |
| Pentachloroethane | 5.0 | | **45.6** | 50.00 | 0 | 91.2 | 48.02 | 5.13 | 12/18/2015 |
| p-Isopropyltoluene | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 51.23 | 5.97 | 12/18/2015 |
| Propionitrile | 50.0 | | **541** | 500.0 | 0 | 108.2 | 491.8 | 9.50 | 12/18/2015 |
| sec-Butylbenzene | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 48.86 | 7.20 | 12/18/2015 |
| Styrene | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 47.88 | 7.01 | 12/18/2015 |
| tert-Amyl methyl ether | 5.0 | | **50.4** | 50.00 | 0 | 100.9 | 45.92 | 9.40 | 12/18/2015 |
| tert-Butyl alcohol | 50.0 | | **281** | 250.0 | 0 | 112.4 | 255.8 | 9.38 | 12/18/2015 |
| tert-Butylbenzene | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 49.72 | 7.34 | 12/18/2015 |
| Tetrachloroethene | 5.0 | | **54.8** | 50.00 | 0 | 109.7 | 47.30 | 14.76 | 12/18/2015 |
| Tetrahydrofuran | 50.0 | | **51.8** | 50.00 | 0 | 103.5 | 45.84 | 12.15 | 12/18/2015 |
| Toluene | 5.0 | | **49.6** | 50.00 | 0 | 99.1 | 46.19 | 7.04 | 12/18/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 47.98 | 9.83 | 12/18/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **51.2** | 50.00 | 0 | 102.3 | 46.53 | 9.50 | 12/18/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **55.0** | 50.00 | 0 | 110.1 | 50.72 | 8.19 | 12/18/2015 |
| Trichloroethene | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 46.56 | 10.38 | 12/18/2015 |
| Trichlorofluoromethane | 5.0 | | **52.9** | 50.00 | 0 | 105.7 | 47.82 | 10.03 | 12/18/2015 |
| Vinyl acetate | 50.0 | | **50.2** | 50.00 | 0 | 100.4 | 48.97 | 2.48 | 12/18/2015 |
| Vinyl chloride | 2.0 | | **51.1** | 50.00 | 0 | 102.2 | 46.73 | 8.95 | 12/18/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344
**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115071** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-Y151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **157** | 150.0 | 0 | 104.3 | 146.2 | 6.83 | 12/18/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.4** | 50.00 | | 98.7 | | | 12/18/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.6** | 50.00 | | 101.2 | | | 12/18/2015 |
| Surr: Toluene-d8 | | | **51.0** | 50.00 | | 101.9 | | | 12/18/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344

**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115071** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-Y151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **45.4** | 50.00 | 0 | 90.9 | 83.1 | 114 | 12/18/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **44.0** | 50.00 | 0 | 88.1 | 78.5 | 119 | 12/18/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **47.2** | 50.00 | 0 | 94.3 | 67.4 | 120 | 12/18/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **46.6** | 50.00 | 0 | 93.2 | 75.4 | 121 | 12/18/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **43.5** | 50.00 | 0 | 86.9 | 81.1 | 111 | 12/18/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **116** | 125.0 | 0 | 92.6 | 55.4 | 131 | 12/18/2015 |
| 1,1-Dichloroethane | 5.0 | | **47.6** | 50.00 | 0 | 95.1 | 80.1 | 116 | 12/18/2015 |
| 1,1-Dichloroethene | 5.0 | | **48.1** | 50.00 | 0 | 96.3 | 73.1 | 121 | 12/18/2015 |
| 1,1-Dichloropropene | 5.0 | | **46.9** | 50.00 | 0 | 93.8 | 82.2 | 114 | 12/18/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 81.7 | 130 | 12/18/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **44.9** | 50.00 | 0 | 89.7 | 67.8 | 118 | 12/18/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.2** | 50.00 | 0 | 96.3 | 82.1 | 127 | 12/18/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 72.3 | 141 | 12/18/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **49.0** | 50.00 | 0 | 97.9 | 79.7 | 123 | 12/18/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 62.1 | 123 | 12/18/2015 |
| 1,2-Dibromoethane | 5.0 | | **46.4** | 50.00 | 0 | 92.9 | 82.4 | 112 | 12/18/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 82.7 | 119 | 12/18/2015 |
| 1,2-Dichloroethane | 5.0 | | **45.3** | 50.00 | 0 | 90.7 | 72.8 | 120 | 12/18/2015 |
| 1,2-Dichloropropane | 5.0 | | **44.8** | 50.00 | 0 | 89.7 | 80 | 116 | 12/18/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 81.5 | 125 | 12/18/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **49.5** | 50.00 | 0 | 98.9 | 82 | 124 | 12/18/2015 |
| 1,3-Dichloropropane | 5.0 | | **44.1** | 50.00 | 0 | 88.2 | 79.8 | 113 | 12/18/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 81.1 | 124 | 12/18/2015 |
| 1-Chlorobutane | 5.0 | | **45.2** | 50.00 | 0 | 90.3 | 77.2 | 113 | 12/18/2015 |
| 2,2-Dichloropropane | 5.0 | | **45.6** | 50.00 | 0 | 91.1 | 76.6 | 121 | 12/18/2015 |
| 2-Butanone | 50.0 | | **127** | 125.0 | 0 | 101.6 | 62.8 | 131 | 12/18/2015 |
| 2-Chlorotoluene | 5.0 | | **47.9** | 50.00 | 0 | 95.9 | 78.8 | 121 | 12/18/2015 |
| 2-Hexanone | 50.0 | | **129** | 125.0 | 0 | 103.5 | 63.1 | 125 | 12/18/2015 |
| 2-Nitropropane | 50.0 | | **503** | 500.0 | 0 | 100.5 | 61.2 | 129 | 12/18/2015 |
| 4-Chlorotoluene | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 77.6 | 124 | 12/18/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **120** | 125.0 | 0 | 96.1 | 60.6 | 126 | 12/18/2015 |
| Acetone | 50.0 | | **130** | 125.0 | 0 | 103.7 | 39.5 | 159 | 12/18/2015 |
| Acetonitrile | 100 | | **493** | 500.0 | 0 | 98.6 | 64.8 | 123 | 12/18/2015 |
| Acrolein | 100 | | **462** | 500.0 | 0 | 92.4 | 1 | 167 | 12/18/2015 |
| Acrylonitrile | 10.0 | | **47.6** | 50.00 | 0 | 95.2 | 67 | 124 | 12/18/2015 |
| Allyl chloride | 5.0 | | **47.6** | 50.00 | 0 | 95.1 | 58.5 | 129 | 12/18/2015 |
| Benzene | 1.0 | | **46.1** | 50.00 | 0 | 92.2 | 80.8 | 117 | 12/18/2015 |
| Bromobenzene | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 79.6 | 117 | 12/18/2015 |
| Bromochloromethane | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 70.7 | 121 | 12/18/2015 |
| Bromodichloromethane | 5.0 | | **45.4** | 50.00 | 0 | 90.8 | 80.7 | 121 | 12/18/2015 |
| Bromoform | 5.0 | | **48.4** | 50.00 | 0 | 96.9 | 79.8 | 118 | 12/18/2015 |
| Bromomethane | 10.0 | | **22.1** | 50.00 | 0 | 44.2 | 1 | 175 | 12/18/2015 |
| Carbon disulfide | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 62.8 | 123 | 12/18/2015 |
| Carbon tetrachloride | 5.0 | | **46.2** | 50.00 | 0 | 92.4 | 77.6 | 123 | 12/18/2015 |
| Chlorobenzene | 5.0 | | **46.9** | 50.00 | 0 | 93.8 | 85.6 | 116 | 12/18/2015 |
| Chloroethane | 10.0 | | **43.9** | 50.00 | 0 | 87.8 | 60.2 | 125 | 12/18/2015 |
| Chloroform | 5.0 | | **46.4** | 50.00 | 0 | 92.7 | 77.9 | 116 | 12/18/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121344

**Client Project:** NGA 2015-0461.21

**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115071** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-Y151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **44.9** | 50.00 | 0 | 89.8 | 29.9 | 157 | 12/18/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **47.2** | 50.00 | 0 | 94.5 | 80.1 | 116 | 12/18/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **47.0** | 50.00 | 0 | 94.0 | 80.5 | 121 | 12/18/2015 |
| Cyclohexanone | 100 | | **474** | 500.0 | 0 | 94.9 | 45.4 | 128 | 12/18/2015 |
| Dibromochloromethane | 5.0 | | **47.3** | 50.00 | 0 | 94.6 | 84.3 | 116 | 12/18/2015 |
| Dibromomethane | 5.0 | | **47.5** | 50.00 | 0 | 94.9 | 76.6 | 115 | 12/18/2015 |
| Dichlorodifluoromethane | 10.0 | | **35.3** | 50.00 | 0 | 70.6 | 1 | 200 | 12/18/2015 |
| Diisopropyl ether | 5.0 | | **45.2** | 50.00 | 0 | 90.4 | 73.6 | 119 | 12/18/2015 |
| Ethyl ether | 5.0 | | **43.5** | 50.00 | 0 | 87.0 | 73.4 | 116 | 12/18/2015 |
| Ethyl methacrylate | 5.0 | | **48.6** | 50.00 | 0 | 97.2 | 76.2 | 120 | 12/18/2015 |
| Ethylbenzene | 5.0 | | **47.1** | 50.00 | 0 | 94.3 | 84.8 | 116 | 12/18/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **45.7** | 50.00 | 0 | 91.5 | 73.8 | 119 | 12/18/2015 |
| Hexachlorobutadiene | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 74 | 135 | 12/18/2015 |
| Hexachloroethane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 76.4 | 121 | 12/18/2015 |
| Iodomethane | 10.0 | | **40.9** | 50.00 | 0 | 81.8 | 38.7 | 161 | 12/18/2015 |
| Isopropylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 85 | 125 | 12/18/2015 |
| m,p-Xylenes | 5.0 | | **97.9** | 100.0 | 0 | 97.9 | 85.3 | 120 | 12/18/2015 |
| Methacrylonitrile | 50.0 | J | **50** | 50.00 | 0 | 99.0 | 65.7 | 120 | 12/18/2015 |
| Methyl Methacrylate | 5.0 | | **45.9** | 50.00 | 0 | 91.8 | 69.1 | 114 | 12/18/2015 |
| Methyl tert-butyl ether | 2.0 | | **43.6** | 50.00 | 0 | 87.3 | 66.6 | 125 | 12/18/2015 |
| Methylacrylate | 10.0 | | **47.0** | 50.00 | 0 | 94.0 | 69.7 | 121 | 12/18/2015 |
| Methylene chloride | 5.0 | | **45.6** | 50.00 | 0 | 91.2 | 73.4 | 115 | 12/18/2015 |
| Naphthalene | 10.0 | | **50.6** | 50.00 | 0 | 101.3 | 70.1 | 134 | 12/18/2015 |
| n-Butylbenzene | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 78.4 | 138 | 12/18/2015 |
| n-Heptane | 20.0 | | **49.9** | 50.00 | 0 | 99.9 | 74.3 | 125 | 12/18/2015 |
| n-Hexane | 20.0 | | **48.5** | 50.00 | 0 | 97.0 | 66.3 | 129 | 12/18/2015 |
| Nitrobenzene | 100 | | **496** | 500.0 | 0 | 99.2 | 20.1 | 165 | 12/18/2015 |
| n-Propylbenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 79.1 | 125 | 12/18/2015 |
| o-Xylene | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 81.9 | 118 | 12/18/2015 |
| Pentachloroethane | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 72.7 | 123 | 12/18/2015 |
| p-Isopropyltoluene | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 82.7 | 129 | 12/18/2015 |
| Propionitrile | 50.0 | | **492** | 500.0 | 0 | 98.4 | 64.3 | 121 | 12/18/2015 |
| sec-Butylbenzene | 5.0 | | **48.9** | 50.00 | 0 | 97.7 | 81.3 | 125 | 12/18/2015 |
| Styrene | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 88.2 | 122 | 12/18/2015 |
| tert-Amyl methyl ether | 5.0 | | **45.9** | 50.00 | 0 | 91.8 | 74.5 | 120 | 12/18/2015 |
| tert-Butyl alcohol | 50.0 | | **256** | 250.0 | 0 | 102.3 | 51.3 | 129 | 12/18/2015 |
| tert-Butylbenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 74.8 | 125 | 12/18/2015 |
| Tetrachloroethene | 5.0 | | **47.3** | 50.00 | 0 | 94.6 | 84.2 | 122 | 12/18/2015 |
| Tetrahydrofuran | 50.0 | J | **46** | 50.00 | 0 | 91.7 | 61 | 118 | 12/18/2015 |
| Toluene | 5.0 | | **46.2** | 50.00 | 0 | 92.4 | 81.3 | 113 | 12/18/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 78.2 | 118 | 12/18/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **46.5** | 50.00 | 0 | 93.1 | 81.7 | 124 | 12/18/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 63.9 | 117 | 12/18/2015 |
| Trichloroethene | 5.0 | | **46.6** | 50.00 | 0 | 93.1 | 81 | 123 | 12/18/2015 |
| Trichlorofluoromethane | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 66.8 | 131 | 12/18/2015 |
| Vinyl acetate | 50.0 | J | **49** | 50.00 | 0 | 97.9 | 64.3 | 122 | 12/18/2015 |
| Vinyl chloride | 2.0 | | **46.7** | 50.00 | 0 | 93.5 | 45.2 | 140 | 12/18/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115071 **SampType:** LCS Units **µg/Kg**

SampID: LCS-Y151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **146** | 150.0 | 0 | 97.4 | 85.3 | 118 | 12/18/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.7** | 50.00 | | 97.3 | 72.2 | 131 | 12/18/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.4 | 82.1 | 116 | 12/18/2015 |
| Surr: Toluene-d8 | | | **50.5** | 50.00 | | 101.0 | 86 | 116 | 12/18/2015 |

**Batch** 115071 **SampType:** LCSGD Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-Y151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1880** | 2000 | 0 | 94.1 | 2018 | 6.93 | 12/18/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.7** | 50.00 | | 99.3 | | | 12/18/2015 |
| Surr: 4-Bromofluorobenzene | | | **51.5** | 50.00 | | 102.9 | | | 12/18/2015 |
| Surr: Toluene-d8 | | | **51.4** | 50.00 | | 102.7 | | | 12/18/2015 |

**Batch** 115071 **SampType:** LCSG Units **µg/Kg**

SampID: LCSG-Y151218A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2020** | 2000 | 0 | 100.9 | 70 | 130 | 12/18/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.7** | 50.00 | | 97.4 | 72.2 | 131 | 12/18/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.5 | 82.1 | 116 | 12/18/2015 |
| Surr: Toluene-d8 | | | **51.6** | 50.00 | | 103.1 | 86 | 116 | 12/18/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/21/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/21/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/21/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/21/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344
**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115107 **SampType:** MBLK Units **µg/Kg**

SampID: MBLK-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/21/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/21/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/21/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/21/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/21/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/21/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121344

**Client Project:** NGA 2015-0461.21

**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/21/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.9** | 50.00 | | 99.8 | 72.2 | 131 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.4 | 82.1 | 116 | 12/21/2015 |
| Surr: Toluene-d8 | | | **49.6** | 50.00 | | 99.3 | 86 | 116 | 12/21/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344

**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 83.1 | 114 | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 78.5 | 119 | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 67.4 | 120 | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 75.4 | 121 | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 81.1 | 111 | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **122** | 125.0 | 0 | 97.4 | 55.4 | 131 | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.1** | 50.00 | 0 | 106.1 | 80.1 | 116 | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **54.4** | 50.00 | 0 | 108.7 | 73.1 | 121 | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 82.2 | 114 | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 81.7 | 130 | 12/21/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **48.3** | 50.00 | 0 | 96.6 | 67.8 | 118 | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 82.1 | 127 | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **56.5** | 50.00 | 0 | 112.9 | 72.3 | 141 | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **55.2** | 50.00 | 0 | 110.3 | 79.7 | 123 | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 62.1 | 123 | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.0** | 50.00 | 0 | 95.9 | 82.4 | 112 | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 82.7 | 119 | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 72.8 | 120 | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 80 | 116 | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 81.5 | 125 | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **55.0** | 50.00 | 0 | 109.9 | 82 | 124 | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.4** | 50.00 | 0 | 98.9 | 79.8 | 113 | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **55.0** | 50.00 | 0 | 110.1 | 81.1 | 124 | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **54.4** | 50.00 | 0 | 108.7 | 77.2 | 113 | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **55.1** | 50.00 | 0 | 110.2 | 76.6 | 121 | 12/21/2015 |
| 2-Butanone | 50.0 | | **141** | 125.0 | 0 | 112.8 | 62.8 | 131 | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **54.5** | 50.00 | 0 | 108.9 | 78.8 | 121 | 12/21/2015 |
| 2-Hexanone | 50.0 | | **134** | 125.0 | 0 | 107.4 | 63.1 | 125 | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **580** | 500.0 | 0 | 115.9 | 61.2 | 129 | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **55.4** | 50.00 | 0 | 110.8 | 77.6 | 124 | 12/21/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **123** | 125.0 | 0 | 98.7 | 60.6 | 126 | 12/21/2015 |
| Acetone | 50.0 | | **168** | 125.0 | 0 | 134.3 | 39.5 | 159 | 12/21/2015 |
| Acetonitrile | 100 | | **533** | 500.0 | 0 | 106.6 | 64.8 | 123 | 12/21/2015 |
| Acrolein | 100 | | **491** | 500.0 | 0 | 98.2 | 1 | 167 | 12/21/2015 |
| Acrylonitrile | 10.0 | | **50.5** | 50.00 | 0 | 101.0 | 67 | 124 | 12/21/2015 |
| Allyl chloride | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 58.5 | 129 | 12/21/2015 |
| Benzene | 1.0 | | **54.2** | 50.00 | 0 | 108.4 | 80.8 | 117 | 12/21/2015 |
| Bromobenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.3 | 79.6 | 117 | 12/21/2015 |
| Bromochloromethane | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 70.7 | 121 | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 80.7 | 121 | 12/21/2015 |
| Bromoform | 5.0 | | **56.1** | 50.00 | 0 | 112.3 | 79.8 | 118 | 12/21/2015 |
| Bromomethane | 10.0 | | **34.3** | 50.00 | 0 | 68.6 | 1 | 175 | 12/21/2015 |
| Carbon disulfide | 5.0 | | **53.3** | 50.00 | 0 | 106.7 | 62.8 | 123 | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **56.3** | 50.00 | 0 | 112.6 | 77.6 | 123 | 12/21/2015 |
| Chlorobenzene | 5.0 | | **54.0** | 50.00 | 0 | 107.9 | 85.6 | 116 | 12/21/2015 |
| Chloroethane | 10.0 | | **52.4** | 50.00 | 0 | 104.8 | 60.2 | 125 | 12/21/2015 |
| Chloroform | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 77.9 | 116 | 12/21/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121344

**Client Project:** NGA 2015-0461.21

**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **42.4** | 50.00 | 0 | 84.7 | 29.9 | 157 | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 80.1 | 116 | 12/21/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **54.2** | 50.00 | 0 | 108.3 | 80.5 | 121 | 12/21/2015 |
| Cyclohexanone | 100 | | **470** | 500.0 | 0 | 94.0 | 45.4 | 128 | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 84.3 | 116 | 12/21/2015 |
| Dibromomethane | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 76.6 | 115 | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **38.9** | 50.00 | 0 | 77.9 | 1 | 200 | 12/21/2015 |
| Diisopropyl ether | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 73.6 | 119 | 12/21/2015 |
| Ethyl ether | 5.0 | | **48.5** | 50.00 | 0 | 97.1 | 73.4 | 116 | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 76.2 | 120 | 12/21/2015 |
| Ethylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 84.8 | 116 | 12/21/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **49.9** | 50.00 | 0 | 99.7 | 73.8 | 119 | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **55.3** | 50.00 | 0 | 110.7 | 74 | 135 | 12/21/2015 |
| Hexachloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 76.4 | 121 | 12/21/2015 |
| Iodomethane | 10.0 | | **46.8** | 50.00 | 0 | 93.5 | 38.7 | 161 | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 85 | 125 | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **111** | 100.0 | 0 | 111.0 | 85.3 | 120 | 12/21/2015 |
| Methacrylonitrile | 50.0 | | **50.6** | 50.00 | 0 | 101.3 | 65.7 | 120 | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 69.1 | 114 | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **48.6** | 50.00 | 0 | 97.3 | 66.6 | 125 | 12/21/2015 |
| Methylacrylate | 10.0 | | **53.4** | 50.00 | 0 | 106.7 | 69.7 | 121 | 12/21/2015 |
| Methylene chloride | 5.0 | | **53.2** | 50.00 | 0 | 106.3 | 73.4 | 115 | 12/21/2015 |
| Naphthalene | 10.0 | | **50.0** | 50.00 | 0 | 100.0 | 70.1 | 134 | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **57.7** | 50.00 | 0 | 115.4 | 78.4 | 138 | 12/21/2015 |
| n-Heptane | 20.0 | | **56.9** | 50.00 | 0 | 113.8 | 74.3 | 125 | 12/21/2015 |
| n-Hexane | 20.0 | | **56.5** | 50.00 | 0 | 112.9 | 66.3 | 129 | 12/21/2015 |
| Nitrobenzene | 100 | | **538** | 500.0 | 0 | 107.5 | 20.1 | 165 | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **55.2** | 50.00 | 0 | 110.5 | 79.1 | 125 | 12/21/2015 |
| o-Xylene | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 81.9 | 118 | 12/21/2015 |
| Pentachloroethane | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 72.7 | 123 | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 82.7 | 129 | 12/21/2015 |
| Propionitrile | 50.0 | | **534** | 500.0 | 0 | 106.9 | 64.3 | 121 | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 81.3 | 125 | 12/21/2015 |
| Styrene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 88.2 | 122 | 12/21/2015 |
| tert-Amyl methyl ether | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 74.5 | 120 | 12/21/2015 |
| tert-Butyl alcohol | 50.0 | | **260** | 250.0 | 0 | 104.0 | 51.3 | 129 | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 74.8 | 125 | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 84.2 | 122 | 12/21/2015 |
| Tetrahydrofuran | 50.0 | J | **49** | 50.00 | 0 | 98.5 | 61 | 118 | 12/21/2015 |
| Toluene | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 81.3 | 113 | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 78.2 | 118 | 12/21/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.4** | 50.00 | 0 | 104.7 | 81.7 | 124 | 12/21/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 63.9 | 117 | 12/21/2015 |
| Trichloroethene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 81 | 123 | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **53.8** | 50.00 | 0 | 107.7 | 66.8 | 131 | 12/21/2015 |
| Vinyl acetate | 50.0 | | **52.6** | 50.00 | 0 | 105.3 | 64.3 | 122 | 12/21/2015 |
| Vinyl chloride | 2.0 | | **50.1** | 50.00 | 0 | 100.2 | 45.2 | 140 | 12/21/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121344

**Client Project:** NGA 2015-0461.21

**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **165** | 150.0 | 0 | 110.1 | 85.3 | 118 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.5** | 50.00 | | 99.1 | 72.2 | 131 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **51.1** | 50.00 | | 102.2 | 82.1 | 116 | 12/21/2015 |
| Surr: Toluene-d8 | | | **47.5** | 50.00 | | 94.9 | 86 | 116 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115107 **SampType:** LCSD Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 50.75 | 0.73 | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **55.5** | 50.00 | 0 | 111.1 | 54.41 | 2.04 | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 48.89 | 2.48 | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **56.4** | 50.00 | 0 | 112.7 | 55.31 | 1.88 | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 49.01 | 2.10 | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **123** | 125.0 | 0 | 98.4 | 121.8 | 0.96 | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.1 | 53.06 | 0.92 | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **54.5** | 50.00 | 0 | 109.1 | 54.37 | 0.29 | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **56.0** | 50.00 | 0 | 112.0 | 55.32 | 1.24 | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **56.0** | 50.00 | 0 | 112.1 | 54.16 | 3.39 | 12/21/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **50.4** | 50.00 | 0 | 100.8 | 48.29 | 4.30 | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 50.18 | 0.76 | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **56.8** | 50.00 | 0 | 113.7 | 56.46 | 0.67 | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 55.16 | 0.29 | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 48.09 | 2.97 | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 47.96 | 1.45 | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 53.31 | 0.22 | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 52.14 | 2.22 | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **53.9** | 50.00 | 0 | 107.9 | 52.96 | 1.83 | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 52.97 | 0.68 | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **55.0** | 50.00 | 0 | 110.1 | 54.95 | 0.16 | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 49.44 | 0.83 | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 55.04 | 1.35 | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 54.36 | 0.42 | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 55.12 | 0.83 | 12/21/2015 |
| 2-Butanone | 50.0 | | **150** | 125.0 | 0 | 119.9 | 141.0 | 6.07 | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 54.47 | 0.77 | 12/21/2015 |
| 2-Hexanone | 50.0 | | **142** | 125.0 | 0 | 113.8 | 134.2 | 5.80 | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **604** | 500.0 | 0 | 120.7 | 579.5 | 4.09 | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 55.39 | 1.22 | 12/21/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **128** | 125.0 | 0 | 102.6 | 123.4 | 3.80 | 12/21/2015 |
| Acetone | 50.0 | | **180** | 125.0 | 0 | 143.9 | 167.9 | 6.92 | 12/21/2015 |
| Acetonitrile | 100 | | **555** | 500.0 | 0 | 111.1 | 533.1 | 4.11 | 12/21/2015 |
| Acrolein | 100 | | **494** | 500.0 | 0 | 98.8 | 491.1 | 0.59 | 12/21/2015 |
| Acrylonitrile | 10.0 | | **51.7** | 50.00 | 0 | 103.3 | 50.51 | 2.27 | 12/21/2015 |
| Allyl chloride | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 53.65 | 0.24 | 12/21/2015 |
| Benzene | 1.0 | | **55.1** | 50.00 | 0 | 110.1 | 54.20 | 1.57 | 12/21/2015 |
| Bromobenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 50.65 | 1.47 | 12/21/2015 |
| Bromochloromethane | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 52.79 | 0.89 | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **54.0** | 50.00 | 0 | 107.9 | 53.04 | 1.72 | 12/21/2015 |
| Bromoform | 5.0 | | **56.0** | 50.00 | 0 | 111.9 | 56.14 | 0.34 | 12/21/2015 |
| Bromomethane | 10.0 | | **37.0** | 50.00 | 0 | 74.0 | 34.28 | 7.58 | 12/21/2015 |
| Carbon disulfide | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 53.34 | 0.97 | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **57.2** | 50.00 | 0 | 114.5 | 56.28 | 1.67 | 12/21/2015 |
| Chlorobenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 53.97 | 1.23 | 12/21/2015 |
| Chloroethane | 10.0 | | **52.9** | 50.00 | 0 | 105.9 | 52.42 | 0.97 | 12/21/2015 |
| Chloroform | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 53.23 | 1.07 | 12/21/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344

**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **42.8** | 50.00 | 0 | 85.6 | 42.35 | 1.03 | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 53.19 | 1.34 | 12/21/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **54.9** | 50.00 | 0 | 109.9 | 54.16 | 1.43 | 12/21/2015 |
| Cyclohexanone | 100 | | **464** | 500.0 | 0 | 92.8 | 470.0 | 1.26 | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 52.09 | 1.07 | 12/21/2015 |
| Dibromomethane | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 51.89 | 2.17 | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **38.0** | 50.00 | 0 | 76.0 | 38.93 | 2.37 | 12/21/2015 |
| Diisopropyl ether | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 49.51 | 2.45 | 12/21/2015 |
| Ethyl ether | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 48.54 | 3.46 | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 50.25 | 2.73 | 12/21/2015 |
| Ethylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 52.21 | 1.25 | 12/21/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 49.87 | 2.16 | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **55.9** | 50.00 | 0 | 111.7 | 55.34 | 0.94 | 12/21/2015 |
| Hexachloroethane | 5.0 | | **53.4** | 50.00 | 0 | 106.7 | 53.59 | 0.45 | 12/21/2015 |
| Iodomethane | 10.0 | | **48.3** | 50.00 | 0 | 96.6 | 46.75 | 3.22 | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.7 | 52.59 | 0.46 | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **110** | 100.0 | 0 | 110.0 | 111.0 | 0.90 | 12/21/2015 |
| Methacrylonitrile | 50.0 | | **53.1** | 50.00 | 0 | 106.2 | 50.63 | 4.76 | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 51.79 | 4.73 | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **50.6** | 50.00 | 0 | 101.1 | 48.65 | 3.87 | 12/21/2015 |
| Methylacrylate | 10.0 | | **56.0** | 50.00 | 0 | 111.9 | 53.35 | 4.76 | 12/21/2015 |
| Methylene chloride | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 53.16 | 2.27 | 12/21/2015 |
| Naphthalene | 10.0 | | **51.9** | 50.00 | 0 | 103.7 | 50.02 | 3.63 | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **56.5** | 50.00 | 0 | 112.9 | 57.69 | 2.14 | 12/21/2015 |
| n-Heptane | 20.0 | | **57.4** | 50.00 | 0 | 114.8 | 56.88 | 0.91 | 12/21/2015 |
| n-Hexane | 20.0 | | **56.4** | 50.00 | 0 | 112.8 | 56.47 | 0.12 | 12/21/2015 |
| Nitrobenzene | 100 | | **550** | 500.0 | 0 | 110.0 | 537.7 | 2.25 | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 55.24 | 0.67 | 12/21/2015 |
| o-Xylene | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 54.19 | 0.50 | 12/21/2015 |
| Pentachloroethane | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 53.79 | 9.56 | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 54.03 | 0.59 | 12/21/2015 |
| Propionitrile | 50.0 | | **552** | 500.0 | 0 | 110.5 | 534.4 | 3.31 | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **53.1** | 50.00 | 0 | 106.3 | 53.22 | 0.17 | 12/21/2015 |
| Styrene | 5.0 | | **55.1** | 50.00 | 0 | 110.1 | 55.29 | 0.42 | 12/21/2015 |
| tert-Amyl methyl ether | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 49.84 | 3.18 | 12/21/2015 |
| tert-Butyl alcohol | 50.0 | | **273** | 250.0 | 0 | 109.4 | 259.9 | 5.06 | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.1 | 54.49 | 0.77 | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 49.61 | 8.03 | 12/21/2015 |
| Tetrahydrofuran | 50.0 | | **52.5** | 50.00 | 0 | 105.0 | 49.26 | 6.39 | 12/21/2015 |
| Toluene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 52.62 | 1.57 | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.6** | 50.00 | 0 | 109.1 | 54.31 | 0.48 | 12/21/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.8** | 50.00 | 0 | 105.7 | 52.36 | 0.89 | 12/21/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 50.36 | 3.01 | 12/21/2015 |
| Trichloroethene | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 55.32 | 0.36 | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 53.85 | 0.43 | 12/21/2015 |
| Vinyl acetate | 50.0 | | **52.7** | 50.00 | 0 | 105.4 | 52.63 | 0.15 | 12/21/2015 |
| Vinyl chloride | 2.0 | | **50.5** | 50.00 | 0 | 101.0 | 50.08 | 0.85 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115107** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **164** | 150.0 | 0 | 109.3 | 165.2 | 0.77 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.3** | 50.00 | | 100.6 | | | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.5** | 50.00 | | 101.0 | | | 12/21/2015 |
| Surr: Toluene-d8 | | | **47.6** | 50.00 | | 95.2 | | | 12/21/2015 |

**Batch 115107** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1890** | 2000 | 0 | 94.3 | 70 | 130 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.5** | 50.00 | | 99.1 | 72.2 | 131 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.9** | 50.00 | | 101.8 | 82.1 | 116 | 12/21/2015 |
| Surr: Toluene-d8 | | | **49.3** | 50.00 | | 98.6 | 86 | 116 | 12/21/2015 |

**Batch 115107** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1970** | 2000 | 0 | 98.6 | 1885 | 4.54 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.5** | 50.00 | | 99.0 | | | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.6** | 50.00 | | 101.2 | | | 12/21/2015 |
| Surr: Toluene-d8 | | | **50.1** | 50.00 | | 100.2 | | | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/22/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/22/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/22/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/22/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/22/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/22/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/22/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/22/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344

**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/22/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.8** | 50.00 | | 99.6 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **51.0** | 50.00 | | 101.9 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **48.6** | 50.00 | | 97.2 | 86 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121344

**Client Project:** NGA 2015-0461.21

**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 83.1 | 114 | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **55.9** | 50.00 | 0 | 111.7 | 78.5 | 119 | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 67.4 | 120 | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **56.6** | 50.00 | 0 | 113.1 | 75.4 | 121 | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 81.1 | 111 | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **118** | 125.0 | 0 | 94.5 | 55.4 | 131 | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 80.1 | 116 | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 73.1 | 121 | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **56.7** | 50.00 | 0 | 113.4 | 82.2 | 114 | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 81.7 | 130 | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **48.8** | 50.00 | 0 | 97.7 | 67.8 | 118 | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 82.1 | 127 | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **59.2** | 50.00 | 0 | 118.4 | 72.3 | 141 | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **56.0** | 50.00 | 0 | 112.0 | 79.7 | 123 | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **45.8** | 50.00 | 0 | 91.5 | 62.1 | 123 | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.3** | 50.00 | 0 | 96.5 | 82.4 | 112 | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 82.7 | 119 | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 72.8 | 120 | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **53.3** | 50.00 | 0 | 106.7 | 80 | 116 | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 81.5 | 125 | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 82 | 124 | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 79.8 | 113 | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 81.1 | 124 | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 77.2 | 113 | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **56.7** | 50.00 | 0 | 113.5 | 76.6 | 121 | 12/22/2015 |
| 2-Butanone | 50.0 | | **137** | 125.0 | 0 | 109.4 | 62.8 | 131 | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 78.8 | 121 | 12/22/2015 |
| 2-Hexanone | 50.0 | | **127** | 125.0 | 0 | 101.8 | 63.1 | 125 | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **575** | 500.0 | 0 | 114.9 | 61.2 | 129 | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **56.5** | 50.00 | 0 | 113.1 | 77.6 | 124 | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **121** | 125.0 | 0 | 97.1 | 60.6 | 126 | 12/22/2015 |
| Acetone | 50.0 | | **157** | 125.0 | 0 | 125.4 | 39.5 | 159 | 12/22/2015 |
| Acetonitrile | 100 | | **541** | 500.0 | 0 | 108.2 | 64.8 | 123 | 12/22/2015 |
| Acrolein | 100 | | **518** | 500.0 | 0 | 103.7 | 1 | 167 | 12/22/2015 |
| Acrylonitrile | 10.0 | | **46.6** | 50.00 | 0 | 93.3 | 67 | 124 | 12/22/2015 |
| Allyl chloride | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 58.5 | 129 | 12/22/2015 |
| Benzene | 1.0 | | **55.3** | 50.00 | 0 | 110.5 | 80.8 | 117 | 12/22/2015 |
| Bromobenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 79.6 | 117 | 12/22/2015 |
| Bromochloromethane | 5.0 | | **52.6** | 50.00 | 0 | 105.1 | 70.7 | 121 | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 80.7 | 121 | 12/22/2015 |
| Bromoform | 5.0 | | **55.3** | 50.00 | 0 | 110.5 | 79.8 | 118 | 12/22/2015 |
| Bromomethane | 10.0 | | **45.3** | 50.00 | 0 | 90.6 | 1 | 175 | 12/22/2015 |
| Carbon disulfide | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 62.8 | 123 | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **57.5** | 50.00 | 0 | 115.1 | 77.6 | 123 | 12/22/2015 |
| Chlorobenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 85.6 | 116 | 12/22/2015 |
| Chloroethane | 10.0 | | **51.4** | 50.00 | 0 | 102.9 | 60.2 | 125 | 12/22/2015 |
| Chloroform | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 77.9 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344

**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **38.0** | 50.00 | 0 | 75.9 | 29.9 | 157 | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 80.1 | 116 | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **55.0** | 50.00 | 0 | 110.1 | 80.5 | 121 | 12/22/2015 |
| Cyclohexanone | 100 | | **454** | 500.0 | 0 | 90.9 | 45.4 | 128 | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 84.3 | 116 | 12/22/2015 |
| Dibromomethane | 5.0 | | **53.1** | 50.00 | 0 | 106.1 | 76.6 | 115 | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **30.4** | 50.00 | 0 | 60.9 | 1 | 200 | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 73.6 | 119 | 12/22/2015 |
| Ethyl ether | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 73.4 | 116 | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 76.2 | 120 | 12/22/2015 |
| Ethylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 84.8 | 116 | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 73.8 | 119 | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **58.0** | 50.00 | 0 | 116.0 | 74 | 135 | 12/22/2015 |
| Hexachloroethane | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 76.4 | 121 | 12/22/2015 |
| Iodomethane | 10.0 | | **55.8** | 50.00 | 0 | 111.6 | 38.7 | 161 | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 85 | 125 | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **111** | 100.0 | 0 | 110.5 | 85.3 | 120 | 12/22/2015 |
| Methacrylonitrile | 50.0 | | **50.7** | 50.00 | 0 | 101.5 | 65.7 | 120 | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 69.1 | 114 | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **49.6** | 50.00 | 0 | 99.1 | 66.6 | 125 | 12/22/2015 |
| Methylacrylate | 10.0 | | **54.7** | 50.00 | 0 | 109.4 | 69.7 | 121 | 12/22/2015 |
| Methylene chloride | 5.0 | | **53.7** | 50.00 | 0 | 107.5 | 73.4 | 115 | 12/22/2015 |
| Naphthalene | 10.0 | | **50.6** | 50.00 | 0 | 101.3 | 70.1 | 134 | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **58.4** | 50.00 | 0 | 116.9 | 78.4 | 138 | 12/22/2015 |
| n-Heptane | 20.0 | | **57.8** | 50.00 | 0 | 115.6 | 74.3 | 125 | 12/22/2015 |
| n-Hexane | 20.0 | | **57.5** | 50.00 | 0 | 114.9 | 66.3 | 129 | 12/22/2015 |
| Nitrobenzene | 100 | | **488** | 500.0 | 0 | 97.6 | 20.1 | 165 | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **56.5** | 50.00 | 0 | 112.9 | 79.1 | 125 | 12/22/2015 |
| o-Xylene | 5.0 | | **54.6** | 50.00 | 0 | 109.3 | 81.9 | 118 | 12/22/2015 |
| Pentachloroethane | 5.0 | | **57.4** | 50.00 | 0 | 114.9 | 72.7 | 123 | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 82.7 | 129 | 12/22/2015 |
| Propionitrile | 50.0 | | **533** | 500.0 | 0 | 106.5 | 64.3 | 121 | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 81.3 | 125 | 12/22/2015 |
| Styrene | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 88.2 | 122 | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 74.5 | 120 | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **260** | 250.0 | 0 | 103.9 | 51.3 | 129 | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 74.8 | 125 | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 84.2 | 122 | 12/22/2015 |
| Tetrahydrofuran | 50.0 | | **50.8** | 50.00 | 0 | 101.6 | 61 | 118 | 12/22/2015 |
| Toluene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 81.3 | 113 | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.6** | 50.00 | 0 | 109.1 | 78.2 | 118 | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.6** | 50.00 | 0 | 105.3 | 81.7 | 124 | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 63.9 | 117 | 12/22/2015 |
| Trichloroethene | 5.0 | | **56.6** | 50.00 | 0 | 113.2 | 81 | 123 | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 66.8 | 131 | 12/22/2015 |
| Vinyl acetate | 50.0 | | **53.9** | 50.00 | 0 | 107.8 | 64.3 | 122 | 12/22/2015 |
| Vinyl chloride | 2.0 | | **46.1** | 50.00 | 0 | 92.2 | 45.2 | 140 | 12/22/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344

**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **165** | 150.0 | 0 | 110.1 | 85.3 | 118 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.3** | 50.00 | | 98.6 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.2** | 50.00 | | 100.5 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **46.8** | 50.00 | | 93.5 | 86 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344

**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 51.62 | 3.55 | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 55.86 | 5.37 | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.6** | 50.00 | 0 | 97.1 | 48.91 | 0.70 | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 56.55 | 6.63 | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 49.38 | 0.81 | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **124** | 125.0 | 0 | 99.1 | 118.1 | 4.77 | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 53.62 | 5.17 | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **50.9** | 50.00 | 0 | 101.7 | 53.76 | 5.54 | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 56.69 | 6.01 | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 55.80 | 3.06 | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **48.4** | 50.00 | 0 | 96.9 | 48.83 | 0.82 | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 50.32 | 3.17 | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 59.22 | 5.43 | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 55.99 | 4.70 | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 45.75 | 2.89 | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 48.27 | 0.06 | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 54.21 | 4.89 | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 53.10 | 2.04 | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 53.34 | 2.20 | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 53.45 | 5.24 | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 55.80 | 4.70 | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.2** | 50.00 | 0 | 98.5 | 49.75 | 1.05 | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 56.10 | 4.78 | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **52.2** | 50.00 | 0 | 104.5 | 54.62 | 4.44 | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 56.74 | 6.08 | 12/22/2015 |
| 2-Butanone | 50.0 | | **122** | 125.0 | 0 | 97.6 | 136.8 | 11.38 | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 55.30 | 5.58 | 12/22/2015 |
| 2-Hexanone | 50.0 | | **114** | 125.0 | 0 | 91.5 | 127.3 | 10.73 | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **592** | 500.0 | 0 | 118.4 | 574.6 | 3.02 | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **52.7** | 50.00 | 0 | 105.5 | 56.54 | 6.97 | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **124** | 125.0 | 0 | 99.4 | 121.3 | 2.33 | 12/22/2015 |
| Acetone | 50.0 | | **121** | 125.0 | 0 | 96.6 | 156.7 | 25.95 | 12/22/2015 |
| Acetonitrile | 100 | | **554** | 500.0 | 0 | 110.9 | 541.0 | 2.43 | 12/22/2015 |
| Acrolein | 100 | | **496** | 500.0 | 0 | 99.2 | 518.4 | 4.45 | 12/22/2015 |
| Acrylonitrile | 10.0 | | **50.7** | 50.00 | 0 | 101.3 | 46.63 | 8.30 | 12/22/2015 |
| Allyl chloride | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 52.38 | 3.18 | 12/22/2015 |
| Benzene | 1.0 | | **53.2** | 50.00 | 0 | 106.4 | 55.27 | 3.78 | 12/22/2015 |
| Bromobenzene | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 50.92 | 4.09 | 12/22/2015 |
| Bromochloromethane | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 52.56 | 1.75 | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 53.68 | 2.55 | 12/22/2015 |
| Bromoform | 5.0 | | **54.8** | 50.00 | 0 | 109.6 | 55.26 | 0.82 | 12/22/2015 |
| Bromomethane | 10.0 | | **43.7** | 50.00 | 0 | 87.4 | 45.31 | 3.62 | 12/22/2015 |
| Carbon disulfide | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 51.99 | 5.82 | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 57.54 | 5.59 | 12/22/2015 |
| Chlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 54.16 | 3.17 | 12/22/2015 |
| Chloroethane | 10.0 | | **48.4** | 50.00 | 0 | 96.7 | 51.45 | 6.19 | 12/22/2015 |
| Chloroform | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 54.41 | 4.28 | 12/22/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344

**Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **36.1** | 50.00 | 0 | 72.1 | 37.96 | 5.11 | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 54.28 | 4.46 | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **53.7** | 50.00 | 0 | 107.4 | 55.03 | 2.47 | 12/22/2015 |
| Cyclohexanone | 100 | | **476** | 500.0 | 0 | 95.2 | 454.4 | 4.70 | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 52.09 | 0.83 | 12/22/2015 |
| Dibromomethane | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 53.06 | 1.63 | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **28.0** | 50.00 | 0 | 56.0 | 30.43 | 8.35 | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 49.63 | 2.67 | 12/22/2015 |
| Ethyl ether | 5.0 | | **48.2** | 50.00 | 0 | 96.3 | 48.99 | 1.73 | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 50.41 | 0.55 | 12/22/2015 |
| Ethylbenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 51.80 | 4.14 | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 50.41 | 2.23 | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 58.02 | 6.64 | 12/22/2015 |
| Hexachloroethane | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 53.26 | 4.34 | 12/22/2015 |
| Iodomethane | 10.0 | | **52.8** | 50.00 | 0 | 105.6 | 55.79 | 5.49 | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 52.77 | 4.44 | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **106** | 100.0 | 0 | 106.0 | 110.5 | 4.18 | 12/22/2015 |
| Methacrylonitrile | 50.0 | | **51.4** | 50.00 | 0 | 102.7 | 50.74 | 1.20 | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 52.15 | 1.43 | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **49.3** | 50.00 | 0 | 98.6 | 49.55 | 0.55 | 12/22/2015 |
| Methylacrylate | 10.0 | | **55.7** | 50.00 | 0 | 111.4 | 54.72 | 1.78 | 12/22/2015 |
| Methylene chloride | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 53.74 | 4.84 | 12/22/2015 |
| Naphthalene | 10.0 | | **50.1** | 50.00 | 0 | 100.2 | 50.63 | 1.05 | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **55.1** | 50.00 | 0 | 110.1 | 58.45 | 5.95 | 12/22/2015 |
| n-Heptane | 20.0 | | **54.3** | 50.00 | 0 | 108.7 | 57.78 | 6.14 | 12/22/2015 |
| n-Hexane | 20.0 | | **53.6** | 50.00 | 0 | 107.2 | 57.47 | 7.01 | 12/22/2015 |
| Nitrobenzene | 100 | | **497** | 500.0 | 0 | 99.4 | 487.8 | 1.89 | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 56.46 | 5.81 | 12/22/2015 |
| o-Xylene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 54.65 | 3.29 | 12/22/2015 |
| Pentachloroethane | 5.0 | | **55.7** | 50.00 | 0 | 111.3 | 57.44 | 3.13 | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 54.38 | 5.11 | 12/22/2015 |
| Propionitrile | 50.0 | | **553** | 500.0 | 0 | 110.6 | 532.6 | 3.78 | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 53.32 | 4.90 | 12/22/2015 |
| Styrene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 55.60 | 2.88 | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 50.91 | 1.27 | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **275** | 250.0 | 0 | 110.0 | 259.6 | 5.73 | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **51.3** | 50.00 | 0 | 102.5 | 54.60 | 6.29 | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **46.0** | 50.00 | 0 | 92.0 | 49.30 | 6.90 | 12/22/2015 |
| Tetrahydrofuran | 50.0 | | **51.6** | 50.00 | 0 | 103.2 | 50.79 | 1.54 | 12/22/2015 |
| Toluene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 51.90 | 2.77 | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 54.55 | 4.56 | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.2** | 50.00 | 0 | 104.3 | 52.64 | 0.94 | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 50.09 | 0.32 | 12/22/2015 |
| Trichloroethene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 56.60 | 4.11 | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 53.69 | 6.74 | 12/22/2015 |
| Vinyl acetate | 50.0 | | **55.7** | 50.00 | 0 | 111.5 | 53.91 | 3.32 | 12/22/2015 |
| Vinyl chloride | 2.0 | | **43.0** | 50.00 | 0 | 86.1 | 46.11 | 6.91 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121344

**Client Project:** NGA 2015-0461.21 **Report Date:** 23-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115156** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **159** | 150.0 | 0 | 105.9 | 165.2 | 3.88 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.4** | 50.00 | | 98.8 | | | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.9** | 50.00 | | 99.9 | | | 12/22/2015 |
| Surr: Toluene-d8 | | | **47.4** | 50.00 | | 94.8 | | | 12/22/2015 |

**Batch 115156** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1850** | 2000 | 0 | 92.5 | 70 | 130 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.2** | 50.00 | | 98.4 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **51.9** | 50.00 | | 103.8 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **49.3** | 50.00 | | 98.6 | 86 | 116 | 12/22/2015 |

**Batch 115156** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1910** | 2000 | 0 | 95.4 | 1850 | 3.12 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.6** | 50.00 | | 99.2 | | | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.5** | 50.00 | | 101.0 | | | 12/22/2015 |
| Surr: Toluene-d8 | | | **49.1** | 50.00 | | 98.2 | | | 12/22/2015 |

# Receiving Check List

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121344
**Report Date:** 23-Dec-15

**Carrier:** Nick Harvey

**Received By:** EEP

**Completed by:** M. Kaminski
**On:** 18-Dec-15
Mary Anne Kaminski

**Reviewed by:** Elizabeth A. Hurley
**On:** 18-Dec-15
Elizabeth A. Hurley

**Pages to follow:** Chain of custody 2 Extra pages included 0

| | | | | |
|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ | Temp °C 5.82 |
| Type of thermal preservation? | None ☐ | Ice ☑ | Blue Ice ☐ | Dry Ice ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | | |
| Sample containers intact? | Yes ☑ | No ☐ | | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | | |
| All samples received within holding time? | Yes ☑ | No ☐ | | |
| Reported field parameters measured: | Field ☐ | Lab ☐ | NA ☑ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | | |

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

| | | | |
|---|---|---|---|
| Water – at least one vial per sample has zero headspace? | Yes ☐ | No ☐ | No VOA vials ☑ |
| Water - TOX containers have zero headspace? | Yes ☐ | No ☐ | No TOX containers ☑ |
| Water - pH acceptable upon receipt? | Yes ☐ | No ☐ | NA ☑ |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes ☐ | No ☐ | NA ☑ |

**Any No responses must be detailed below or on the COC.**

# CHAIN OF CUSTODY

pg. 1 of 2 Work order # 15121344

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☒ ICE ☐ BLUE ICE ☐ NO ICE 5.82 °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Client Comments:**
MEET MRBCA DTLS

Teklab, Inc.
Courier Pick Up

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15121344 001 | SCI-1A (0-3) | 12/17/15 915 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 002 | SCI-1B (12-16) | 930 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 003 | SCI-2A (0-3) | 955 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 004 | SCI-2B (16-20) | 1010 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 005 | SCI-3A (0-3) | 1030 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 006 | SCI-3B (12-16) | 1045 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 007 | SCI-4A (0-3) | 11:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 008 | SCI-4B (16-20) | 11:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 009 | SCI-4D (16-20) | 11:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 010 | SCI-5A (0-3) | 12:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 12/17/2015 4:30 pm | | 12/17/15 4:30 |
| | 12/17/15 5:10 | | 12/17/15 1710 |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

KF 12/18/15

# CHAIN OF CUSTODY

pg. 2 of 2 Work order # 15121344

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**

**Client Comments:**
Meet MRBCA DTLS

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15121344 011 | SCI-5B (4-8) | 12-17-15 12:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 012 | SCI-6A (0-3) | 1:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 013 | SCI-6B (16-20) | 1:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 014 | SCI-7A (0-3) | 2:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 015 | SCI-7B (16-20) | 2:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 016 | SCI-8A (0-3) | 2:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 017 | SCI-8B (16-20) | 2:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 018 | SCI-9A (0-3) | 3:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 019 | SCI-9B (16-20) | 3:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 12/17/2015 4:30 pm | | 12/17/15 4:30 |
| | 12/17/15 5:10 | | 12/17/15 1710 |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

December 28, 2015

Ben Butterfield
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301
TEL: (618) 206-3028
FAX: (636) 949-8269

**RE:** NGA 2015-0461.21 **WorkOrder:** 15121421

Dear Ben Butterfield:

TEKLAB, INC received 20 samples on 12/18/2015 5:18:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

# Report Contents

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

**This reporting package includes the following:**


| | |
|---|---|
| Cover Letter | 1 |
| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 4 |
| Laboratory Results | 5 |
| Quality Control Results | 65 |
| Receiving Check List | 116 |
| Chain of Custody | Appended |

# Definitions

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

| Abbr | Definition |
|---|---|
| CCV | Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration. |
| DF | Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors. |
| DNI | Did not ignite |
| DUP | Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. |
| ICV | Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated. |
| IDPH | IL Dept. of Public Health |
| LCS | Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request). |
| LCSD | Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MBLK | Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses. |
| MDL | Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. |
| MS | Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MSD | Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MW | Molecular weight |
| ND | Not Detected at the Reporting Limit |
| NELAP | NELAP Accredited |
| PQL | Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request). |
| RL | The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL. |
| RPD | Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request). |
| SPK | The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. |
| Surr | Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. |
| TIC | Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET" |
| TNTC | Too numerous to count ( > 200 CFU ) |

## Qualifiers

| | | | |
|---|---|---|---|
| # - | Unknown hydrocarbon | B - | Analyte detected in associated Method Blank |
| E - | Value above quantitation range | H - | Holding times exceeded |
| I - | Associated internal standard was outside method criteria | J - | Analyte detected below quantitation limits |
| M - | Manual Integration used to determine area response | ND - | Not Detected at the Reporting Limit |
| R - | RPD outside accepted recovery limits | S - | Spike Recovery outside recovery limits |
| T - | TIC(Tentatively identified compound) | X - | Value exceeds Maximum Contaminant Level |

# Case Narrative

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421

**Report Date:** 28-Dec-15

**Cooler Receipt Temp:** 5.22 °C

## Locations and Accreditations

| | Collinsville | Springfield | Kansas City | Collinsville Air |
|---|---|---|---|---|
| Address | 5445 Horseshoe Lake Road | 3920 Pintail Dr | 8421 Nieman Road | 5445 Horseshoe Lake Road |
| | Collinsville, IL 62234-7425 | Springfield, IL 62711-9415 | Lenexa, KS 66214 | Collinsville, IL 62234-7425 |
| Phone | (618) 344-1004 | (217) 698-1004 | (913) 541-1998 | (618) 344-1004 |
| Fax | (618) 344-1005 | (217) 698-1005 | (913) 541-1998 | (618) 344-1005 |
| Email | jhriley@teklabinc.com | KKlostermann@teklabinc.com | dthompson@teklabinc.com | EHurley@teklabinc.com |

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|---|---|---|---|---|---|
| Illinois | IEPA | 100226 | NELAP | 1/31/2017 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 1/31/2016 | Collinsville |
| Louisiana | LDEQ | 166493 | NELAP | 6/30/2016 | Collinsville |
| Louisiana | LDEQ | 166578 | NELAP | 6/30/2016 | Collinsville |
| Texas | TCEQ | T104704515-12-1 | NELAP | 7/31/2016 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2016 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2017 | Collinsville |
| Kentucky | KDEP | 98006 | | 12/31/2015 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2016 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2017 | Collinsville |
| Oklahoma | ODEQ | 9978 | | 8/31/2016 | Collinsville |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-001
**Client Sample ID:** EB-1
**Matrix:** AQUEOUS
**Collection Date:** 12/18/2015 8:05

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-001
**Client Sample ID:** EB-1
**Matrix:** AQUEOUS
**Collection Date:** 12/18/2015 8:05

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-001
**Client Sample ID:** EB-1
**Matrix:** AQUEOUS
**Collection Date:** 12/18/2015 8:05

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **87.4** | %REC | 1 | 12/21/2015 12:39 | 115150 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **95.2** | %REC | 1 | 12/21/2015 12:39 | 115150 |
| Surr: Toluene-d8 | | 84.3-114 | | **89.6** | %REC | 1 | 12/21/2015 12:39 | 115150 |

*LCS and LCSD recovered outside upper QC limits for acetone. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-002
**Client Sample ID:** TB-1
**Matrix:** TRIP BLANK
**Collection Date:** 12/18/2015 17:18

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-002
**Client Sample ID:** TB-1
**Matrix:** TRIP BLANK
**Collection Date:** 12/18/2015 17:18

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Chloroform | NELAP | 5.0 | J | **1.0** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-002
**Client Sample ID:** TB-1
**Matrix:** TRIP BLANK
**Collection Date:** 12/18/2015 17:18

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **84.6** | %REC | 1 | 12/21/2015 13:06 | 115150 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **94.6** | %REC | 1 | 12/21/2015 13:06 | 115150 |
| Surr: Toluene-d8 | | 84.3-114 | | **89.0** | %REC | 1 | 12/21/2015 13:06 | 115150 |

*LCS and LCSD recovered outside upper QC limits for acetone. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-003
**Client Sample ID:** SCI-10A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.7** | % | 1 | 12/22/2015 21:58 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **7.16** | mg/Kg-dry | 1 | 12/23/2015 9:22 | 115162 |
| Barium | NELAP | 0.24 | | **164** | mg/Kg-dry | 1 | 12/23/2015 9:22 | 115162 |
| Cadmium | NELAP | 0.19 | | **0.27** | mg/Kg-dry | 1 | 12/23/2015 9:22 | 115162 |
| Chromium | NELAP | 0.48 | | **18.3** | mg/Kg-dry | 1 | 12/23/2015 9:22 | 115162 |
| Lead | NELAP | 1.44 | | **9.32** | mg/Kg-dry | 1 | 12/23/2015 9:22 | 115162 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/23/2015 9:22 | 115162 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/23/2015 9:22 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.023** | mg/Kg-dry | 1 | 12/23/2015 11:26 | 115165 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:39 | 115116 |
| Aroclor 1221 | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:39 | 115116 |
| Aroclor 1232 | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:39 | 115116 |
| Aroclor 1242 | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:39 | 115116 |
| Aroclor 1248 | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:39 | 115116 |
| Aroclor 1254 | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:39 | 115116 |
| Aroclor 1260 | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:39 | 115116 |
| Surr: Decachlorobiphenyl | | 5-156 | | **90.4** | %REC | 1 | 12/22/2015 16:39 | 115116 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **96.8** | %REC | 1 | 12/22/2015 16:39 | 115116 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Chrysene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Fluorene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Pyrene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| TPH-DRO (C10 - C21) | | 14.7 | J | **9.6** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| TPH-ORO (C21 - C35) | | 14.7 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **81.1** | %REC | 1 | 12/21/2015 13:48 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **73.0** | %REC | 1 | 12/21/2015 13:48 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.4** | %REC | 1 | 12/21/2015 13:48 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,1-Dichloro-2-propanone | | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-003 **Client Sample ID:** SCI-10A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2,3-Trichloropropane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2,3-Trimethylbenzene | | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2-Dibromoethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2-Dichloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 2-Butanone | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 2-Hexanone | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 2-Nitropropane | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 4-Methyl-2-pentanone | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Acetone | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Acetonitrile | NELAP | 89.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Acrolein | NELAP | 89.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Acrylonitrile | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Bromomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Chloroethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Chloromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Cyclohexanone | | 89.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Dichlorodifluoromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-003 **Client Sample ID:** SCI-10A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Ethyl methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Ethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Ethyl-tert-butyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Hexachlorobutadiene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Hexachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Iodomethane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Isopropylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| m,p-Xylenes | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Methacrylonitrile | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Methylacrylate | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Naphthalene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| n-Heptane | | 18.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| n-Hexane | | 18.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Nitrobenzene | NELAP | 89.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Propionitrile | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| tert-Butyl alcohol | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Tetrahydrofuran | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| TPH - GRO (C6 - C10) | | 449 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Vinyl acetate | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **97.8** | %REC | 1 | 12/21/2015 14:28 | 115107 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.4** | %REC | 1 | 12/21/2015 14:28 | 115107 |
| Surr: Toluene-d8 | | 86-116 | | **99.3** | %REC | 1 | 12/21/2015 14:28 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-004
**Client Sample ID:** SCI-10B (12-16)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **22.7** | % | 1 | 12/22/2015 21:58 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **12.6** | mg/Kg-dry | 1 | 12/23/2015 9:26 | 115162 |
| Barium | NELAP | 0.24 | | **138** | mg/Kg-dry | 1 | 12/23/2015 9:26 | 115162 |
| Cadmium | NELAP | 0.19 | | **0.43** | mg/Kg-dry | 1 | 12/23/2015 9:26 | 115162 |
| Chromium | NELAP | 0.48 | | **59.6** | mg/Kg-dry | 1 | 12/23/2015 9:26 | 115162 |
| Lead | NELAP | 1.44 | | **15.5** | mg/Kg-dry | 1 | 12/23/2015 9:26 | 115162 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/23/2015 9:26 | 115162 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/23/2015 9:26 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.048** | mg/Kg-dry | 1 | 12/23/2015 11:29 | 115165 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:56 | 115116 |
| Aroclor 1221 | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:56 | 115116 |
| Aroclor 1232 | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:56 | 115116 |
| Aroclor 1242 | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:56 | 115116 |
| Aroclor 1248 | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:56 | 115116 |
| Aroclor 1254 | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:56 | 115116 |
| Aroclor 1260 | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:56 | 115116 |
| Surr: Decachlorobiphenyl | | 5-156 | | **99.6** | %REC | 1 | 12/22/2015 16:56 | 115116 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **101.5** | %REC | 1 | 12/22/2015 16:56 | 115116 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Anthracene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Chrysene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Fluoranthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Fluorene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Pyrene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| TPH-DRO (C10 - C21) | | 15.4 | J | **9.5** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| TPH-ORO (C21 - C35) | | 15.4 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **76.3** | %REC | 1 | 12/21/2015 14:19 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.6** | %REC | 1 | 12/21/2015 14:19 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **90.9** | %REC | 1 | 12/21/2015 14:19 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,1-Dichloro-2-propanone | | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-004 **Client Sample ID:** SCI-10B (12-16)

**Matrix:** SOLID **Collection Date:** 12/18/2015 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2,3-Trichloropropane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2,3-Trimethylbenzene | | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2-Dibromoethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2-Dichloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 2-Butanone | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 2-Hexanone | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 2-Nitropropane | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 4-Methyl-2-pentanone | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Acetone | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Acetonitrile | NELAP | 93.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Acrolein | NELAP | 93.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Acrylonitrile | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Bromomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Chloroethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Chloromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Cyclohexanone | | 93.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Dichlorodifluoromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121421-004
**Matrix:** SOLID

**Work Order:** 15121421
**Report Date:** 28-Dec-15
**Client Sample ID:** SCI-10B (12-16)
**Collection Date:** 12/18/2015 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Ethyl methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Ethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Ethyl-tert-butyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Hexachlorobutadiene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Hexachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Iodomethane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Isopropylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| m,p-Xylenes | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Methacrylonitrile | NELAP | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Methylacrylate | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Methylene chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Naphthalene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| n-Heptane | | 18.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| n-Hexane | | 18.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Nitrobenzene | NELAP | 93.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Propionitrile | NELAP | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| tert-Butyl alcohol | NELAP | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Tetrahydrofuran | NELAP | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| TPH - GRO (C6 - C10) | | 467 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Vinyl acetate | NELAP | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **112.6** | %REC | 1 | 12/21/2015 14:54 | 115107 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.2** | %REC | 1 | 12/21/2015 14:54 | 115107 |
| Surr: Toluene-d8 | | 86-116 | | **96.7** | %REC | 1 | 12/21/2015 14:54 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-005
**Client Sample ID:** SCI-11A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.6** | % | 1 | 12/22/2015 21:59 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **6.57** | mg/Kg-dry | 1 | 12/23/2015 9:29 | 115162 |
| Barium | NELAP | 0.24 | | **145** | mg/Kg-dry | 1 | 12/23/2015 9:29 | 115162 |
| Cadmium | NELAP | 0.19 | | **0.30** | mg/Kg-dry | 1 | 12/23/2015 9:29 | 115162 |
| Chromium | NELAP | 0.47 | | **19.1** | mg/Kg-dry | 1 | 12/23/2015 9:29 | 115162 |
| Lead | NELAP | 1.42 | | **15.5** | mg/Kg-dry | 1 | 12/23/2015 9:29 | 115162 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/23/2015 9:29 | 115162 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 12/23/2015 9:29 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.062** | mg/Kg-dry | 1 | 12/23/2015 11:35 | 115165 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:13 | 115116 |
| Aroclor 1221 | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:13 | 115116 |
| Aroclor 1232 | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:13 | 115116 |
| Aroclor 1242 | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:13 | 115116 |
| Aroclor 1248 | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:13 | 115116 |
| Aroclor 1254 | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:13 | 115116 |
| Aroclor 1260 | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:13 | 115116 |
| Surr: Decachlorobiphenyl | | 5-156 | | **89.8** | %REC | 1 | 12/22/2015 17:13 | 115116 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **102.9** | %REC | 1 | 12/22/2015 17:13 | 115116 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Chrysene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Fluorene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Pyrene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| TPH-DRO (C10 - C21) | | 14.8 | J | **9.4** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| TPH-ORO (C21 - C35) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **74.3** | %REC | 1 | 12/24/2015 2:39 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.7** | %REC | 1 | 12/24/2015 2:39 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **89.3** | %REC | 1 | 12/24/2015 2:39 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,1-Dichloro-2-propanone | | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-005 **Client Sample ID:** SCI-11A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2,3-Trimethylbenzene | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2-Dibromoethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2-Dichloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 2-Butanone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 2-Hexanone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 2-Nitropropane | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 4-Methyl-2-pentanone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Acetone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Acetonitrile | NELAP | 92.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Acrolein | NELAP | 92.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Cyclohexanone | | 92.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121421-005
**Matrix:** SOLID

**Work Order:** 15121421
**Report Date:** 28-Dec-15
**Client Sample ID:** SCI-11A (0-3)
**Collection Date:** 12/18/2015 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Ethyl methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Ethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Ethyl-tert-butyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Hexachlorobutadiene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Hexachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Iodomethane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Isopropylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| m,p-Xylenes | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Methacrylonitrile | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| n-Heptane | | 18.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| n-Hexane | | 18.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Nitrobenzene | NELAP | 92.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Propionitrile | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| tert-Butyl alcohol | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Tetrahydrofuran | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| TPH - GRO (C6 - C10) | | 461 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Vinyl acetate | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **99.0** | %REC | 1 | 12/21/2015 15:20 | 115107 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.9** | %REC | 1 | 12/21/2015 15:20 | 115107 |
| Surr: Toluene-d8 | | 86-116 | | **99.9** | %REC | 1 | 12/21/2015 15:20 | 115107 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-006
**Client Sample ID:** SCI-11B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.2** | % | 1 | 12/22/2015 22:00 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **8.08** | mg/Kg-dry | 1 | 12/23/2015 9:33 | 115162 |
| Barium | NELAP | 0.24 | | **103** | mg/Kg-dry | 1 | 12/23/2015 9:33 | 115162 |
| Cadmium | NELAP | 0.19 | | **0.38** | mg/Kg-dry | 1 | 12/23/2015 9:33 | 115162 |
| Chromium | NELAP | 0.48 | | **43.4** | mg/Kg-dry | 1 | 12/23/2015 9:33 | 115162 |
| Lead | NELAP | 1.44 | | **15.5** | mg/Kg-dry | 1 | 12/23/2015 9:33 | 115162 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/23/2015 9:33 | 115162 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/23/2015 9:33 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.034** | mg/Kg-dry | 1 | 12/23/2015 11:38 | 115165 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:30 | 115116 |
| Aroclor 1221 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:30 | 115116 |
| Aroclor 1232 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:30 | 115116 |
| Aroclor 1242 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:30 | 115116 |
| Aroclor 1248 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:30 | 115116 |
| Aroclor 1254 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:30 | 115116 |
| Aroclor 1260 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:30 | 115116 |
| Surr: Decachlorobiphenyl | | 5-156 | | **103.5** | %REC | 1 | 12/22/2015 17:30 | 115116 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **94.0** | %REC | 1 | 12/22/2015 17:30 | 115116 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Chrysene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Fluorene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Pyrene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| TPH-DRO (C10 - C21) | | 14.7 | J | **8.6** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| TPH-ORO (C21 - C35) | | 14.7 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **70.7** | %REC | 1 | 12/21/2015 14:49 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **65.2** | %REC | 1 | 12/21/2015 14:49 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **86.1** | %REC | 1 | 12/21/2015 14:49 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,1-Dichloro-2-propanone | | 46.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-006 **Client Sample ID:** SCI-11B (16-20)

**Matrix:** SOLID **Collection Date:** 12/18/2015 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2,3-Trichloropropane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2,3-Trimethylbenzene | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2-Dibromoethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2-Dichloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 2-Butanone | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 2-Hexanone | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 2-Nitropropane | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 4-Methyl-2-pentanone | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Acetone | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Acetonitrile | NELAP | 92.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Acrolein | NELAP | 92.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Acrylonitrile | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Bromomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Chloroethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Chloromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Cyclohexanone | | 92.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Dichlorodifluoromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121421-006
**Matrix:** SOLID

**Work Order:** 15121421
**Report Date:** 28-Dec-15
**Client Sample ID:** SCI-11B (16-20)
**Collection Date:** 12/18/2015 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Ethyl methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Ethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Ethyl-tert-butyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Hexachlorobutadiene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Hexachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Iodomethane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Isopropylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| m,p-Xylenes | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Methacrylonitrile | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Methylacrylate | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Naphthalene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| n-Heptane | | 18.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| n-Hexane | | 18.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Nitrobenzene | NELAP | 92.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Propionitrile | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| tert-Butyl alcohol | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Tetrahydrofuran | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| TPH - GRO (C6 - C10) | | 463 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Vinyl acetate | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.3** | %REC | 1 | 12/21/2015 15:46 | 115107 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.1** | %REC | 1 | 12/21/2015 15:46 | 115107 |
| Surr: Toluene-d8 | | 86-116 | | **99.4** | %REC | 1 | 12/21/2015 15:46 | 115107 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-007
**Client Sample ID:** SCI-12A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.4** | % | 1 | 12/22/2015 22:00 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **9.48** | mg/Kg-dry | 1 | 12/23/2015 9:37 | 115162 |
| Barium | NELAP | 0.25 | | **253** | mg/Kg-dry | 1 | 12/23/2015 9:37 | 115162 |
| Cadmium | NELAP | 0.20 | | **0.47** | mg/Kg-dry | 1 | 12/23/2015 9:37 | 115162 |
| Chromium | NELAP | 0.50 | | **19.0** | mg/Kg-dry | 1 | 12/23/2015 9:37 | 115162 |
| Lead | NELAP | 1.50 | | **54.8** | mg/Kg-dry | 1 | 12/23/2015 9:37 | 115162 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/23/2015 9:37 | 115162 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 12/23/2015 9:37 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.034** | mg/Kg-dry | 1 | 12/23/2015 11:40 | 115165 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 46.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:47 | 115116 |
| Aroclor 1221 | NELAP | 46.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:47 | 115116 |
| Aroclor 1232 | NELAP | 46.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:47 | 115116 |
| Aroclor 1242 | NELAP | 46.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:47 | 115116 |
| Aroclor 1248 | NELAP | 46.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:47 | 115116 |
| Aroclor 1254 | NELAP | 46.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:47 | 115116 |
| Aroclor 1260 | NELAP | 46.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:47 | 115116 |
| Surr: Decachlorobiphenyl | | 5-156 | | **102.8** | %REC | 1 | 12/22/2015 17:47 | 115116 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **99.5** | %REC | 1 | 12/22/2015 17:47 | 115116 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0418 | J | **0.030** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0418 | J | **0.025** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0418 | J | **0.036** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Chrysene | NELAP | 0.0418 | J | **0.029** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Fluoranthene | NELAP | 0.0418 | | **0.0619** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Fluorene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Pyrene | NELAP | 0.0418 | | **0.0525** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| TPH-DRO (C10 - C21) | | 14.8 | J | **8.9** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| TPH-ORO (C21 - C35) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **74.9** | %REC | 1 | 12/21/2015 15:19 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **69.0** | %REC | 1 | 12/21/2015 15:19 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **86.7** | %REC | 1 | 12/21/2015 15:19 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,1-Dichloro-2-propanone | | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-007 **Client Sample ID:** SCI-12A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2,3-Trichloropropane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2,3-Trimethylbenzene | | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2-Dibromoethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2-Dichloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 2-Butanone | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 2-Hexanone | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 2-Nitropropane | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 4-Methyl-2-pentanone | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Acetone | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Acetonitrile | NELAP | 89.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Acrolein | NELAP | 89.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Acrylonitrile | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Bromomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Chloroethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Chloromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Cyclohexanone | | 89.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Dichlorodifluoromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-007 **Client Sample ID:** SCI-12A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Ethyl methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Ethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Ethyl-tert-butyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Hexachlorobutadiene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Hexachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Iodomethane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Isopropylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| m,p-Xylenes | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Methacrylonitrile | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Methylacrylate | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Naphthalene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| n-Heptane | | 17.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| n-Hexane | | 17.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Nitrobenzene | NELAP | 89.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Propionitrile | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| tert-Butyl alcohol | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Tetrahydrofuran | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| TPH - GRO (C6 - C10) | | 449 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Vinyl acetate | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **106.3** | %REC | 1 | 12/21/2015 16:12 | 115107 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.0** | %REC | 1 | 12/21/2015 16:12 | 115107 |
| Surr: Toluene-d8 | | 86-116 | | **98.6** | %REC | 1 | 12/21/2015 16:12 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-008
**Client Sample ID:** SCI-12B (12-16)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.5** | % | 1 | 12/22/2015 22:00 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **4.75** | mg/Kg-dry | 1 | 12/23/2015 9:40 | 115162 |
| Barium | NELAP | 0.23 | | **84.2** | mg/Kg-dry | 1 | 12/23/2015 9:40 | 115162 |
| Cadmium | NELAP | 0.18 | | **0.18** | mg/Kg-dry | 1 | 12/23/2015 9:40 | 115162 |
| Chromium | NELAP | 0.45 | | **16.7** | mg/Kg-dry | 1 | 12/23/2015 9:40 | 115162 |
| Lead | NELAP | 1.36 | | **9.56** | mg/Kg-dry | 1 | 12/23/2015 9:40 | 115162 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 12/23/2015 9:40 | 115162 |
| Silver | NELAP | 0.45 | | **< 0.45** | mg/Kg-dry | 1 | 12/23/2015 9:40 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.023** | mg/Kg-dry | 1 | 12/23/2015 11:42 | 115165 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:04 | 115116 |
| Aroclor 1221 | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:04 | 115116 |
| Aroclor 1232 | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:04 | 115116 |
| Aroclor 1242 | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:04 | 115116 |
| Aroclor 1248 | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:04 | 115116 |
| Aroclor 1254 | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:04 | 115116 |
| Aroclor 1260 | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:04 | 115116 |
| Surr: Decachlorobiphenyl | | 5-156 | | **96.0** | %REC | 1 | 12/22/2015 18:04 | 115116 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **97.3** | %REC | 1 | 12/22/2015 18:04 | 115116 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Anthracene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Chrysene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Fluoranthene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Fluorene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Pyrene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| TPH-DRO (C10 - C21) | | 14.3 | J | **8.4** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| TPH-ORO (C21 - C35) | | 14.3 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **73.0** | %REC | 1 | 12/21/2015 15:49 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **67.6** | %REC | 1 | 12/21/2015 15:49 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **84.6** | %REC | 1 | 12/21/2015 15:49 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,1,1-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,1,2-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,1-Dichloro-2-propanone | | 41.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,1-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,1-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-008 **Client Sample ID:** SCI-12B (12-16)

**Matrix:** SOLID **Collection Date:** 12/18/2015 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2,3-Trichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2,3-Trichloropropane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2,3-Trimethylbenzene | | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2,4-Trichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2,4-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2-Dibromoethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2-Dichloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,3,5-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,3-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,3-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,4-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1-Chlorobutane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 2,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 2-Butanone | NELAP | 41.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 2-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 2-Hexanone | NELAP | 41.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 2-Nitropropane | NELAP | 41.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 4-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 4-Methyl-2-pentanone | NELAP | 41.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Acetone | NELAP | 41.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Acetonitrile | NELAP | 83.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Acrolein | NELAP | 83.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Acrylonitrile | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Allyl chloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Bromobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Bromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Bromodichloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Bromoform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Bromomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Carbon disulfide | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Carbon tetrachloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Chlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Chloroethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Chloroform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Chloromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| cis-1,2-Dichloroethene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| cis-1,3-Dichloropropene | NELAP | 3.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Cyclohexanone | | 83.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Dibromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Dibromomethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Dichlorodifluoromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Diisopropyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121421-008
**Matrix:** SOLID

**Work Order:** 15121421
**Report Date:** 28-Dec-15
**Client Sample ID:** SCI-12B (12-16)
**Collection Date:** 12/18/2015 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Ethyl methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Ethylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Ethyl-tert-butyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Hexachlorobutadiene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Hexachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Iodomethane | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Isopropylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| m,p-Xylenes | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Methacrylonitrile | NELAP | 41.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Methyl Methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Methylacrylate | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Methylene chloride | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Naphthalene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| n-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| n-Heptane | | 16.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| n-Hexane | | 16.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Nitrobenzene | NELAP | 83.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| n-Propylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| o-Xylene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Pentachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| p-Isopropyltoluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Propionitrile | NELAP | 41.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| sec-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Styrene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| tert-Amyl methyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| tert-Butyl alcohol | NELAP | 41.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| tert-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Tetrachloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Tetrahydrofuran | NELAP | 41.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Toluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| TPH - GRO (C6 - C10) | | 417 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| trans-1,2-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| trans-1,3-Dichloropropene | NELAP | 3.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Trichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Trichlorofluoromethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Vinyl acetate | NELAP | 41.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Xylenes, Total | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **111.6** | %REC | 1 | 12/21/2015 16:38 | 115107 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.9** | %REC | 1 | 12/21/2015 16:38 | 115107 |
| Surr: Toluene-d8 | | 86-116 | | **97.2** | %REC | 1 | 12/21/2015 16:38 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-009
**Client Sample ID:** SCI-13A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.3** | % | 1 | 12/22/2015 22:01 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **8.16** | mg/Kg-dry | 1 | 12/23/2015 9:44 | 115162 |
| Barium | NELAP | 0.24 | | **179** | mg/Kg-dry | 1 | 12/23/2015 9:44 | 115162 |
| Cadmium | NELAP | 0.19 | | **0.25** | mg/Kg-dry | 1 | 12/23/2015 9:44 | 115162 |
| Chromium | NELAP | 0.47 | | **17.4** | mg/Kg-dry | 1 | 12/23/2015 9:44 | 115162 |
| Lead | NELAP | 1.42 | | **21.6** | mg/Kg-dry | 1 | 12/23/2015 9:44 | 115162 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/23/2015 9:44 | 115162 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 12/23/2015 9:44 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.038** | mg/Kg-dry | 1 | 12/23/2015 11:44 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Anthracene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0411 | J | **0.025** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0411 | J | **0.024** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Chrysene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Fluoranthene | NELAP | 0.0411 | | **0.0419** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Fluorene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Pyrene | NELAP | 0.0411 | J | **0.039** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| TPH-DRO (C10 - C21) | | 14.5 | J | **9.3** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| TPH-ORO (C21 - C35) | | 14.5 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **75.5** | %REC | 1 | 12/24/2015 2:09 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.8** | %REC | 1 | 12/24/2015 2:09 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **90.5** | %REC | 1 | 12/24/2015 2:09 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,1-Dichloro-2-propanone | | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,2,3-Trichloropropane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-009 **Client Sample ID:** SCI-13A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 2-Butanone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 2-Hexanone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 2-Nitropropane | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 4-Methyl-2-pentanone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Acetone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Acetonitrile | NELAP | 93.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Acrolein | NELAP | 93.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Acrylonitrile | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Bromomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Chloroethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Chloromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Cyclohexanone | | 93.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Dichlorodifluoromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Iodomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Methacrylonitrile | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-009
**Client Sample ID:** SCI-13A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Methylacrylate | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Methylene chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Naphthalene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| n-Heptane | | 18.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| n-Hexane | | 18.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Nitrobenzene | NELAP | 93.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Propionitrile | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| tert-Butyl alcohol | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Tetrahydrofuran | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| TPH - GRO (C6 - C10) | | 469 | J | **190** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Vinyl acetate | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **105.6** | %REC | 1 | 12/21/2015 17:04 | 115107 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **109.6** | %REC | 1 | 12/21/2015 17:04 | 115107 |
| Surr: Toluene-d8 | | 86-116 | | **104.1** | %REC | 1 | 12/21/2015 17:04 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-010
**Client Sample ID:** SCI-13B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.7** | % | 1 | 12/22/2015 22:01 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **11.2** | mg/Kg-dry | 1 | 12/23/2015 10:20 | 115162 |
| Barium | NELAP | 0.25 | | **105** | mg/Kg-dry | 1 | 12/23/2015 10:20 | 115162 |
| Cadmium | NELAP | 0.20 | | **0.25** | mg/Kg-dry | 1 | 12/23/2015 10:20 | 115162 |
| Chromium | NELAP | 0.49 | | **29.9** | mg/Kg-dry | 1 | 12/23/2015 10:20 | 115162 |
| Lead | NELAP | 1.47 | | **13.5** | mg/Kg-dry | 1 | 12/23/2015 10:20 | 115162 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 12/23/2015 10:20 | 115162 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 12/23/2015 10:20 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.045** | mg/Kg-dry | 1 | 12/23/2015 11:47 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Chrysene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Fluorene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Pyrene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| TPH-DRO (C10 - C21) | | 14.7 | J | **8.6** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| TPH-ORO (C21 - C35) | | 14.7 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **72.9** | %REC | 1 | 12/21/2015 16:19 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.4** | %REC | 1 | 12/21/2015 16:19 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **89.3** | %REC | 1 | 12/21/2015 16:19 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,1-Dichloro-2-propanone | | 45.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,2,3-Trichloropropane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-010 **Client Sample ID:** SCI-13B (16-20)

**Matrix:** SOLID **Collection Date:** 12/18/2015 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 2-Butanone | NELAP | 45.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 2-Hexanone | NELAP | 45.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 2-Nitropropane | NELAP | 45.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 4-Methyl-2-pentanone | NELAP | 45.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Acetone | NELAP | 45.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Acetonitrile | NELAP | 91.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Acrolein | NELAP | 91.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Acrylonitrile | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Bromomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Chloroethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Chloromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Cyclohexanone | | 91.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Dichlorodifluoromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Iodomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Methacrylonitrile | NELAP | 45.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-010
**Client Sample ID:** SCI-13B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Methylacrylate | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Naphthalene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| n-Heptane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| n-Hexane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Nitrobenzene | NELAP | 91.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Propionitrile | NELAP | 45.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| tert-Butyl alcohol | NELAP | 45.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Tetrahydrofuran | NELAP | 45.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| TPH - GRO (C6 - C10) | | 456 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Vinyl acetate | NELAP | 45.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.4** | %REC | 1 | 12/21/2015 17:30 | 115107 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.3** | %REC | 1 | 12/21/2015 17:30 | 115107 |
| Surr: Toluene-d8 | | 86-116 | | **99.6** | %REC | 1 | 12/21/2015 17:30 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-011
**Client Sample ID:** SCI-13D (16-20)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.0** | % | 1 | 12/22/2015 22:02 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **9.94** | mg/Kg-dry | 1 | 12/23/2015 10:31 | 115162 |
| Barium | NELAP | 0.23 | | **121** | mg/Kg-dry | 1 | 12/23/2015 10:31 | 115162 |
| Cadmium | NELAP | 0.19 | | **0.36** | mg/Kg-dry | 1 | 12/23/2015 10:31 | 115162 |
| Chromium | NELAP | 0.46 | | **32.7** | mg/Kg-dry | 1 | 12/23/2015 10:31 | 115162 |
| Lead | NELAP | 1.39 | | **14.9** | mg/Kg-dry | 1 | 12/23/2015 10:31 | 115162 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 12/23/2015 10:31 | 115162 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 12/23/2015 10:31 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.055** | mg/Kg-dry | 1 | 12/23/2015 11:49 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Anthracene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Chrysene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Fluoranthene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Fluorene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Pyrene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| TPH-DRO (C10 - C21) | | 15.1 | J | **8.2** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| TPH-ORO (C21 - C35) | | 15.1 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.4** | %REC | 1 | 12/21/2015 16:48 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **67.7** | %REC | 1 | 12/21/2015 16:48 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.5** | %REC | 1 | 12/21/2015 16:48 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,1,1-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,1,2-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,1-Dichloro-2-propanone | | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,1-Dichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,1-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,1-Dichloropropene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,2,3-Trichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,2,3-Trichloropropane | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,2,3-Trimethylbenzene | | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,2,4-Trichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,2,4-Trimethylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,2-Dibromoethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,2-Dichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,2-Dichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-011 **Client Sample ID:** SCI-13D (16-20)

**Matrix:** SOLID **Collection Date:** 12/18/2015 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,3,5-Trimethylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,3-Dichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,3-Dichloropropane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,4-Dichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1-Chlorobutane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 2,2-Dichloropropane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 2-Butanone | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 2-Chlorotoluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 2-Hexanone | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 2-Nitropropane | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 4-Chlorotoluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 4-Methyl-2-pentanone | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Acetone | NELAP | 47.5 | J | **18** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Acetonitrile | NELAP | 95.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Acrolein | NELAP | 95.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Acrylonitrile | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Allyl chloride | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Benzene | NELAP | 1.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Bromobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Bromochloromethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Bromodichloromethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Bromoform | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Bromomethane | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Carbon disulfide | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Carbon tetrachloride | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Chlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Chloroethane | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Chloroform | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Chloromethane | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| cis-1,2-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Cyclohexanone | | 95.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Dibromochloromethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Dibromomethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Dichlorodifluoromethane | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Diisopropyl ether | | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Ethyl ether | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Ethyl methacrylate | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Ethylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Ethyl-tert-butyl ether | | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Hexachlorobutadiene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Hexachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Iodomethane | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Isopropylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| m,p-Xylenes | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Methacrylonitrile | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-011 **Client Sample ID:** SCI-13D (16-20)

**Matrix:** SOLID **Collection Date:** 12/18/2015 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Methylacrylate | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Methylene chloride | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Naphthalene | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| n-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| n-Heptane | | 19.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| n-Hexane | | 19.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Nitrobenzene | NELAP | 95.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| n-Propylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| o-Xylene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Pentachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| p-Isopropyltoluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Propionitrile | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| sec-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Styrene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| tert-Amyl methyl ether | | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| tert-Butyl alcohol | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| tert-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Tetrachloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Tetrahydrofuran | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Toluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| TPH - GRO (C6 - C10) | | 475 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| trans-1,2-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Trichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Trichlorofluoromethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Vinyl acetate | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Xylenes, Total | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.8** | %REC | 1 | 12/21/2015 14:40 | 115108 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **108.8** | %REC | 1 | 12/21/2015 14:40 | 115108 |
| Surr: Toluene-d8 | | 86-116 | | **105.4** | %REC | 1 | 12/21/2015 14:40 | 115108 |

*LCS & LCSD recovered outside upper QC limits for acetone. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-012
**Client Sample ID:** SCI-14A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **15.0** | % | 1 | 12/22/2015 22:02 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **9.93** | mg/Kg-dry | 1 | 12/23/2015 10:35 | 115162 |
| Barium | NELAP | 0.23 | | **159** | mg/Kg-dry | 1 | 12/23/2015 10:35 | 115162 |
| Cadmium | NELAP | 0.19 | | **0.39** | mg/Kg-dry | 1 | 12/23/2015 10:35 | 115162 |
| Chromium | NELAP | 0.46 | | **19.5** | mg/Kg-dry | 1 | 12/23/2015 10:35 | 115162 |
| Lead | NELAP | 1.39 | | **87.2** | mg/Kg-dry | 1 | 12/23/2015 10:35 | 115162 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 12/23/2015 10:35 | 115162 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 12/23/2015 10:35 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.127** | mg/Kg-dry | 1 | 12/23/2015 11:51 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0398 | | **0.0484** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Anthracene | NELAP | 0.0398 | | **0.103** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0398 | | **0.354** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0398 | | **0.297** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0398 | | **0.439** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0398 | | **0.157** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Chrysene | NELAP | 0.0398 | | **0.299** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0398 | J | **0.023** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Fluoranthene | NELAP | 0.0398 | | **0.736** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Fluorene | NELAP | 0.0398 | J | **0.038** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Pyrene | NELAP | 0.0398 | | **0.646** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| TPH-DRO (C10 - C21) | | 14.1 | J | **11** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| TPH-ORO (C21 - C35) | | 14.1 | | **16.8** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **77.1** | %REC | 1 | 12/24/2015 3:09 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **74.5** | %REC | 1 | 12/24/2015 3:09 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **90.3** | %REC | 1 | 12/24/2015 3:09 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,1-Dichloro-2-propanone | | 53.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,1-Dichloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,1-Dichloroethene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,1-Dichloropropene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 10.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,2,3-Trimethylbenzene | | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,2-Dibromoethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,2-Dichloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-012 **Client Sample ID:** SCI-14A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,3-Dichloropropane | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1-Chlorobutane | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 2,2-Dichloropropane | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 2-Butanone | NELAP | 53.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 2-Chlorotoluene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 2-Hexanone | NELAP | 53.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 2-Nitropropane | NELAP | 53.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 4-Chlorotoluene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 53.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Acetone | NELAP | 53.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Acetonitrile | NELAP | 106 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Acrolein | NELAP | 106 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Acrylonitrile | NELAP | 10.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Allyl chloride | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Benzene | NELAP | 1.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Bromobenzene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Bromochloromethane | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Bromodichloromethane | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Bromoform | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Bromomethane | NELAP | 10.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Carbon disulfide | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Carbon tetrachloride | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Chlorobenzene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Chloroethane | NELAP | 10.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Chloroform | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Chloromethane | NELAP | 10.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Cyclohexanone | | 106 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Dibromochloromethane | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Dibromomethane | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Dichlorodifluoromethane | NELAP | 10.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Diisopropyl ether | | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Ethyl ether | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Ethyl methacrylate | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Ethylbenzene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Ethyl-tert-butyl ether | | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Hexachlorobutadiene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Hexachloroethane | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Iodomethane | NELAP | 10.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Isopropylbenzene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| m,p-Xylenes | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Methacrylonitrile | NELAP | 53.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-012
**Client Sample ID:** SCI-14A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Methyl tert-butyl ether | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Methylacrylate | NELAP | 10.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Methylene chloride | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Naphthalene | NELAP | 10.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| n-Butylbenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| n-Heptane | | 21.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| n-Hexane | | 21.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Nitrobenzene | NELAP | 106 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| n-Propylbenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| o-Xylene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Pentachloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| p-Isopropyltoluene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Propionitrile | NELAP | 53.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| sec-Butylbenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Styrene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| tert-Amyl methyl ether | | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| tert-Butyl alcohol | NELAP | 53.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| tert-Butylbenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Tetrachloroethene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Tetrahydrofuran | NELAP | 53.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Toluene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| TPH - GRO (C6 - C10) | | 531 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Trichloroethene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Trichlorofluoromethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Vinyl acetate | NELAP | 53.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Vinyl chloride | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Xylenes, Total | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.1** | %REC | 1 | 12/22/2015 13:18 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **109.6** | %REC | 1 | 12/22/2015 13:18 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **101.3** | %REC | 1 | 12/22/2015 13:18 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-013
**Client Sample ID:** SCI-14B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.2** | % | 1 | 12/23/2015 20:05 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **6.91** | mg/Kg-dry | 1 | 12/23/2015 10:39 | 115162 |
| Barium | NELAP | 0.23 | | **111** | mg/Kg-dry | 1 | 12/23/2015 10:39 | 115162 |
| Cadmium | NELAP | 0.18 | | **0.25** | mg/Kg-dry | 1 | 12/23/2015 10:39 | 115162 |
| Chromium | NELAP | 0.45 | | **19.4** | mg/Kg-dry | 1 | 12/23/2015 10:39 | 115162 |
| Lead | NELAP | 1.36 | | **8.43** | mg/Kg-dry | 1 | 12/23/2015 10:39 | 115162 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 12/23/2015 10:39 | 115162 |
| Silver | NELAP | 0.45 | | **< 0.45** | mg/Kg-dry | 1 | 12/23/2015 10:39 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.025** | mg/Kg-dry | 1 | 12/23/2015 11:53 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Chrysene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Fluorene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Pyrene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| TPH-DRO (C10 - C21) | | 15.2 | J | **9.4** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| TPH-ORO (C21 - C35) | | 15.2 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **75.2** | %REC | 1 | 12/21/2015 17:18 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.7** | %REC | 1 | 12/21/2015 17:18 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **86.7** | %REC | 1 | 12/21/2015 17:18 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,1-Dichloro-2-propanone | | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-013 **Client Sample ID:** SCI-14B (16-20)

**Matrix:** SOLID **Collection Date:** 12/18/2015 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 2-Butanone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 2-Hexanone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 2-Nitropropane | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 4-Methyl-2-pentanone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Acetone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Acetonitrile | NELAP | 92.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Acrolein | NELAP | 92.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Cyclohexanone | | 92.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Iodomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Methacrylonitrile | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-013
**Client Sample ID:** SCI-14B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| n-Heptane | | 18.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| n-Hexane | | 18.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Nitrobenzene | NELAP | 92.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Propionitrile | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| tert-Butyl alcohol | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Tetrahydrofuran | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| TPH - GRO (C6 - C10) | | 461 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Vinyl acetate | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **102.0** | %REC | 1 | 12/21/2015 15:34 | 115108 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **103.4** | %REC | 1 | 12/21/2015 15:34 | 115108 |
| Surr: Toluene-d8 | | 86-116 | | **100.5** | %REC | 1 | 12/21/2015 15:34 | 115108 |

*LCS & LCSD recovered outside upper QC limits for acetone. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-014 **Client Sample ID:** SCI-15A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **11.0** | % | 1 | 12/23/2015 20:05 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **4.78** | mg/Kg-dry | 1 | 12/23/2015 11:09 | 115162 |
| Barium | NELAP | 0.25 | | **90.1** | mg/Kg-dry | 1 | 12/23/2015 11:09 | 115162 |
| Cadmium | NELAP | 0.20 | | **0.61** | mg/Kg-dry | 1 | 12/23/2015 11:09 | 115162 |
| Chromium | NELAP | 0.50 | | **12.9** | mg/Kg-dry | 1 | 12/23/2015 11:09 | 115162 |
| Lead | NELAP | 1.50 | | **228** | mg/Kg-dry | 1 | 12/23/2015 11:09 | 115162 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/23/2015 11:09 | 115162 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 12/23/2015 11:09 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.204** | mg/Kg-dry | 1 | 12/23/2015 12:05 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 1.02 | | **ND** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Anthracene | NELAP | 1.02 | | **ND** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Benzo(a)anthracene | NELAP | 1.02 | | **1.10** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Benzo(a)pyrene | NELAP | 1.02 | | **1.06** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Benzo(b)fluoranthene | NELAP | 1.02 | | **1.56** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Benzo(k)fluoranthene | NELAP | 1.02 | | **ND** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Chrysene | NELAP | 1.02 | J | **0.93** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 1.02 | | **ND** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Fluoranthene | NELAP | 1.02 | | **2.16** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Fluorene | NELAP | 1.02 | | **ND** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Pyrene | NELAP | 1.02 | | **1.88** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| TPH-DRO (C10 - C21) | | 359 | | **ND** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| TPH-ORO (C21 - C35) | | 359 | | **ND** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **76.0** | %REC | 5 | 12/24/2015 4:38 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **68.9** | %REC | 5 | 12/24/2015 4:38 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **92.6** | %REC | 5 | 12/24/2015 4:38 | 115091 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,1-Dichloro-2-propanone | | 46.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-014 **Client Sample ID:** SCI-15A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 2-Butanone | NELAP | 46.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 2-Hexanone | NELAP | 46.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 2-Nitropropane | NELAP | 46.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 4-Methyl-2-pentanone | NELAP | 46.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Acetone | NELAP | 46.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Acetonitrile | NELAP | 92.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Acrolein | NELAP | 92.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Cyclohexanone | | 92.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Iodomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-014
**Client Sample ID:** SCI-15A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 46.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| n-Heptane | | 18.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| n-Hexane | | 18.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Nitrobenzene | NELAP | 92.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Propionitrile | NELAP | 46.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| tert-Butyl alcohol | NELAP | 46.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Tetrahydrofuran | NELAP | 46.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| TPH - GRO (C6 - C10) | | 462 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Vinyl acetate | NELAP | 46.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **106.2** | %REC | 1 | 12/21/2015 16:00 | 115108 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **104.3** | %REC | 1 | 12/21/2015 16:00 | 115108 |
| Surr: Toluene-d8 | | 86-116 | | **100.9** | %REC | 1 | 12/21/2015 16:00 | 115108 |

*LCS & LCSD recovered outside upper QC limits for acetone. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-015
**Client Sample ID:** SCI-15B (12-16)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **35.1** | % | 1 | 12/23/2015 20:06 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **25.3** | mg/Kg-dry | 1 | 12/23/2015 11:13 | 115162 |
| Barium | NELAP | 0.25 | | **197** | mg/Kg-dry | 1 | 12/23/2015 11:13 | 115162 |
| Cadmium | NELAP | 0.20 | | **1.62** | mg/Kg-dry | 1 | 12/23/2015 11:13 | 115162 |
| Chromium | NELAP | 0.49 | | **23.5** | mg/Kg-dry | 1 | 12/23/2015 11:13 | 115162 |
| Lead | NELAP | 1.47 | | **759** | mg/Kg-dry | 1 | 12/23/2015 11:13 | 115162 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 12/23/2015 11:13 | 115162 |
| Silver | NELAP | 0.49 | J | **0.24** | mg/Kg-dry | 1 | 12/23/2015 11:13 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.308 | | **2.05** | mg/Kg-dry | 20 | 12/23/2015 13:55 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0523 | | **0.126** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Anthracene | NELAP | 0.0523 | | **0.261** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0523 | | **0.593** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0523 | | **0.522** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0523 | | **0.671** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0523 | | **0.286** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Chrysene | NELAP | 0.0523 | | **0.492** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0523 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Fluoranthene | NELAP | 0.0523 | | **1.03** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Fluorene | NELAP | 0.0523 | | **0.118** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Pyrene | NELAP | 0.0523 | | **0.960** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| TPH-DRO (C10 - C21) | | 18.5 | | **40.6** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| TPH-ORO (C21 - C35) | | 18.5 | | **77.6** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **65.5** | %REC | 1 | 12/24/2015 4:08 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **63.8** | %REC | 1 | 12/24/2015 4:08 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **79.4** | %REC | 1 | 12/24/2015 4:08 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,1,1-Trichloroethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,1,2,2-Tetrachloroethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,1,2-Trichloroethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,1-Dichloro-2-propanone | | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,1-Dichloroethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,1-Dichloroethene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,1-Dichloropropene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,2,3-Trichlorobenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,2,3-Trichloropropane | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,2,3-Trimethylbenzene | | 212 | J | **62** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,2,4-Trichlorobenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,2,4-Trimethylbenzene | NELAP | 212 | J | **120** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,2-Dibromo-3-chloropropane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,2-Dibromoethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,2-Dichlorobenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,2-Dichloroethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121421-015
**Matrix:** SOLID

**Work Order:** 15121421
**Report Date:** 28-Dec-15
**Client Sample ID:** SCI-15B (12-16)
**Collection Date:** 12/18/2015 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,3,5-Trimethylbenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,3-Dichlorobenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,3-Dichloropropane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,4-Dichlorobenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1-Chlorobutane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 2,2-Dichloropropane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 2-Butanone | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 2-Chlorotoluene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 2-Hexanone | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 2-Nitropropane | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 4-Chlorotoluene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 4-Methyl-2-pentanone | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Acetone | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Acetonitrile | NELAP | 4240 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Acrolein | NELAP | 4240 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Acrylonitrile | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Allyl chloride | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Benzene | NELAP | 42.4 | J | **28** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Bromobenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Bromochloromethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Bromodichloromethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Bromoform | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Bromomethane | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Carbon disulfide | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Carbon tetrachloride | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Chlorobenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Chloroethane | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Chloroform | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Chloromethane | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| cis-1,2-Dichloroethene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| cis-1,3-Dichloropropene | NELAP | 170 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Cyclohexanone | | 4240 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Dibromochloromethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Dibromomethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Dichlorodifluoromethane | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Diisopropyl ether | | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Ethyl ether | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Ethyl methacrylate | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Ethylbenzene | NELAP | 212 | J | **46** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Ethyl-tert-butyl ether | | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Hexachlorobutadiene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Hexachloroethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Iodomethane | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Isopropylbenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| m,p-Xylenes | NELAP | 212 | J | **110** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Methacrylonitrile | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-015
**Client Sample ID:** SCI-15B (12-16)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Methyl tert-butyl ether | NELAP | 84.8 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Methylacrylate | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Methylene chloride | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Naphthalene | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| n-Butylbenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| n-Heptane | | 848 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| n-Hexane | | 848 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Nitrobenzene | NELAP | 4240 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| n-Propylbenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| o-Xylene | NELAP | 212 | J | **81** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Pentachloroethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| p-Isopropyltoluene | NELAP | 212 | J | **60** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Propionitrile | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| sec-Butylbenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Styrene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| tert-Amyl methyl ether | | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| tert-Butyl alcohol | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| tert-Butylbenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Tetrachloroethene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Tetrahydrofuran | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Toluene | NELAP | 212 | J | **95** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| TPH - GRO (C6 - C10) | | 21200 | J | **12000** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| trans-1,2-Dichloroethene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| trans-1,3-Dichloropropene | NELAP | 170 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| trans-1,4-Dichloro-2-butene | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Trichloroethene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Trichlorofluoromethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Vinyl acetate | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Vinyl chloride | NELAP | 84.8 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Xylenes, Total | NELAP | 212 | J | **190** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **98.8** | %REC | 12.5 | 12/23/2015 12:24 | 115190 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **96.4** | %REC | 12.5 | 12/23/2015 12:24 | 115190 |
| Surr: Toluene-d8 | | 86-116 | | **96.2** | %REC | 12.5 | 12/23/2015 12:24 | 115190 |

*Elevated reporting limit due to matrix interference.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-016 **Client Sample ID:** SCI-16A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.2** | % | 1 | 12/23/2015 20:06 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **5.69** | mg/Kg-dry | 1 | 12/23/2015 11:16 | 115162 |
| Barium | NELAP | 0.24 | | **149** | mg/Kg-dry | 1 | 12/23/2015 11:16 | 115162 |
| Cadmium | NELAP | 0.19 | | **0.30** | mg/Kg-dry | 1 | 12/23/2015 11:16 | 115162 |
| Chromium | NELAP | 0.47 | | **16.6** | mg/Kg-dry | 1 | 12/23/2015 11:16 | 115162 |
| Lead | NELAP | 1.42 | | **125** | mg/Kg-dry | 1 | 12/23/2015 11:16 | 115162 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/23/2015 11:16 | 115162 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 12/23/2015 11:16 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.065** | mg/Kg-dry | 1 | 12/23/2015 12:09 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 2.98 | | **5.03** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Anthracene | NELAP | 2.98 | | **11.7** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Benzo(a)anthracene | NELAP | 2.98 | | **26.4** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Benzo(a)pyrene | NELAP | 2.98 | | **20.7** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Benzo(b)fluoranthene | NELAP | 2.98 | | **29.2** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Benzo(k)fluoranthene | NELAP | 2.98 | | **9.54** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Chrysene | NELAP | 2.98 | | **21.7** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 2.98 | J | **1.7** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Fluoranthene | NELAP | 2.98 | | **60.9** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Fluorene | NELAP | 2.98 | | **3.57** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Pyrene | NELAP | 2.98 | | **53.4** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| TPH-DRO (C10 - C21) | | 1050 | J | **610** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| TPH-ORO (C21 - C35) | | 1050 | J | **640** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.4** | %REC | 25 | 12/24/2015 3:39 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **63.9** | %REC | 25 | 12/24/2015 3:39 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.8** | %REC | 25 | 12/24/2015 3:39 | 115091 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,1-Dichloro-2-propanone | | 50.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,2,3-Trichloropropane | NELAP | 10.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-016
**Client Sample ID:** SCI-16A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,2-Dichloropropane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,3-Dichloropropane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1-Chlorobutane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 2,2-Dichloropropane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 2-Butanone | NELAP | 50.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 2-Chlorotoluene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 2-Hexanone | NELAP | 50.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 2-Nitropropane | NELAP | 50.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 4-Chlorotoluene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 4-Methyl-2-pentanone | NELAP | 50.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Acetone | NELAP | 50.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Acetonitrile | NELAP | 101 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Acrolein | NELAP | 101 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Acrylonitrile | NELAP | 10.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Allyl chloride | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Bromobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Bromochloromethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Bromodichloromethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Bromoform | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Bromomethane | NELAP | 10.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Carbon disulfide | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Carbon tetrachloride | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Chlorobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Chloroethane | NELAP | 10.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Chloroform | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Chloromethane | NELAP | 10.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| cis-1,3-Dichloropropene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Cyclohexanone | | 101 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Dibromochloromethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Dibromomethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Dichlorodifluoromethane | NELAP | 10.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Diisopropyl ether | | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Ethyl ether | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Ethyl methacrylate | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Ethylbenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Ethyl-tert-butyl ether | | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Hexachlorobutadiene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Hexachloroethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Iodomethane | NELAP | 10.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Isopropylbenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| m,p-Xylenes | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-016
**Client Sample ID:** SCI-16A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 50.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Methylacrylate | NELAP | 10.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Naphthalene | NELAP | 10.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| n-Heptane | | 20.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| n-Hexane | | 20.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Nitrobenzene | NELAP | 101 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Pentachloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Propionitrile | NELAP | 50.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Styrene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| tert-Amyl methyl ether | | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| tert-Butyl alcohol | NELAP | 50.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Tetrahydrofuran | NELAP | 50.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Toluene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| TPH - GRO (C6 - C10) | | 504 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| trans-1,3-Dichloropropene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Vinyl acetate | NELAP | 50.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.3** | %REC | 1 | 12/21/2015 16:54 | 115108 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | S | **117.4** | %REC | 1 | 12/21/2015 16:54 | 115108 |
| Surr: Toluene-d8 | | 86-116 | | **104.4** | %REC | 1 | 12/21/2015 16:54 | 115108 |

*Surrogate recovery is outside QC limits due to matrix interference.*

*LCS & LCSD recovered outside upper QC limits for acetone. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-017
**Client Sample ID:** SCI-16B (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.4** | % | 1 | 12/23/2015 20:06 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **8.28** | mg/Kg-dry | 1 | 12/23/2015 11:20 | 115162 |
| Barium | NELAP | 0.24 | | **164** | mg/Kg-dry | 1 | 12/23/2015 11:20 | 115162 |
| Cadmium | NELAP | 0.19 | | **0.30** | mg/Kg-dry | 1 | 12/23/2015 11:20 | 115162 |
| Chromium | NELAP | 0.48 | | **23.6** | mg/Kg-dry | 1 | 12/23/2015 11:20 | 115162 |
| Lead | NELAP | 1.44 | | **10.7** | mg/Kg-dry | 1 | 12/23/2015 11:20 | 115162 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/23/2015 11:20 | 115162 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/23/2015 11:20 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.047** | mg/Kg-dry | 1 | 12/23/2015 12:12 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Anthracene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Chrysene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Fluoranthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Fluorene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Pyrene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| TPH-DRO (C10 - C21) | | 15.0 | J | **8.9** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| TPH-ORO (C21 - C35) | | 15.0 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.8** | %REC | 1 | 12/21/2015 17:48 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **69.1** | %REC | 1 | 12/21/2015 17:48 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **90.9** | %REC | 1 | 12/21/2015 17:48 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,1-Dichloro-2-propanone | | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,2,3-Trichloropropane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,2-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-017 **Client Sample ID:** SCI-16B (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,3-Dichloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1-Chlorobutane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 2,2-Dichloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 2-Butanone | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 2-Chlorotoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 2-Hexanone | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 2-Nitropropane | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 4-Chlorotoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 4-Methyl-2-pentanone | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Acetone | NELAP | 45.4 | J | **10** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Acetonitrile | NELAP | 90.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Acrolein | NELAP | 90.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Acrylonitrile | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Allyl chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Benzene | NELAP | 0.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Bromobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Bromochloromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Bromodichloromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Bromoform | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Bromomethane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Carbon disulfide | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Carbon tetrachloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Chlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Chloroethane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Chloroform | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Chloromethane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Cyclohexanone | | 90.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Dibromochloromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Dibromomethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Dichlorodifluoromethane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Diisopropyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Ethyl ether | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Ethyl methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Ethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Ethyl-tert-butyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Hexachlorobutadiene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Hexachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Iodomethane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Isopropylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| m,p-Xylenes | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Methacrylonitrile | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-017
**Client Sample ID:** SCI-16B (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Methylacrylate | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Naphthalene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| n-Heptane | | 18.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| n-Hexane | | 18.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Nitrobenzene | NELAP | 90.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Propionitrile | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| tert-Butyl alcohol | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Tetrahydrofuran | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| TPH - GRO (C6 - C10) | | 454 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Vinyl acetate | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **107.3** | %REC | 1 | 12/21/2015 17:21 | 115108 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **106.1** | %REC | 1 | 12/21/2015 17:21 | 115108 |
| Surr: Toluene-d8 | | 86-116 | | **100.4** | %REC | 1 | 12/21/2015 17:21 | 115108 |

*LCS & LCSD recovered outside upper QC limits for acetone. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-018 **Client Sample ID:** SCI-17A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **15.4** | % | 1 | 12/23/2015 20:06 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **2.66** | mg/Kg-dry | 1 | 12/23/2015 11:24 | 115162 |
| Barium | NELAP | 0.25 | | **27.8** | mg/Kg-dry | 1 | 12/23/2015 11:24 | 115162 |
| Cadmium | NELAP | 0.20 | | **0.55** | mg/Kg-dry | 1 | 12/23/2015 11:24 | 115162 |
| Chromium | NELAP | 0.49 | | **10.6** | mg/Kg-dry | 1 | 12/23/2015 11:24 | 115162 |
| Lead | NELAP | 1.47 | | **64.4** | mg/Kg-dry | 1 | 12/23/2015 11:24 | 115162 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 12/23/2015 11:24 | 115162 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 12/23/2015 11:24 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.552** | mg/Kg-dry | 1 | 12/23/2015 12:14 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.574 | J | **0.30** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Anthracene | NELAP | 0.574 | | **0.845** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Benzo(a)anthracene | NELAP | 0.574 | | **4.71** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Benzo(a)pyrene | NELAP | 0.574 | | **4.93** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.574 | | **7.38** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.574 | | **2.22** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Chrysene | NELAP | 0.574 | | **4.36** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.574 | | **ND** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Fluoranthene | NELAP | 0.574 | | **9.30** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Fluorene | NELAP | 0.574 | | **ND** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Pyrene | NELAP | 0.574 | | **9.16** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| TPH-DRO (C10 - C21) | | 203 | J | **110** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| TPH-ORO (C21 - C35) | | 203 | J | **110** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **73.6** | %REC | 5 | 12/24/2015 6:08 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **67.5** | %REC | 5 | 12/24/2015 6:08 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.0** | %REC | 5 | 12/24/2015 6:08 | 115091 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,1,1-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,1,2-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,1-Dichloro-2-propanone | | 41.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,1-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,1-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,1-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,2,3-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,2,3-Trichloropropane | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,2,3-Trimethylbenzene | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,2,4-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,2,4-Trimethylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,2-Dibromoethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,2-Dichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-018 **Client Sample ID:** SCI-17A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,3,5-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,3-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,3-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,4-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1-Chlorobutane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 2,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 2-Butanone | NELAP | 41.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 2-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 2-Hexanone | NELAP | 41.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 2-Nitropropane | NELAP | 41.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 4-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 4-Methyl-2-pentanone | NELAP | 41.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Acetone | NELAP | 41.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Acetonitrile | NELAP | 83.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Acrolein | NELAP | 83.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Acrylonitrile | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Allyl chloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Bromobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Bromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Bromodichloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Bromoform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Bromomethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Carbon disulfide | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Carbon tetrachloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Chlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Chloroethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Chloroform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Chloromethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| cis-1,2-Dichloroethene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Cyclohexanone | | 83.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Dibromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Dibromomethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Dichlorodifluoromethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Diisopropyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Ethyl ether | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Ethyl methacrylate | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Ethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Ethyl-tert-butyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Hexachlorobutadiene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Hexachloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Iodomethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Isopropylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| m,p-Xylenes | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-018
**Client Sample ID:** SCI-17A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 41.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Methyl Methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Methylacrylate | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Methylene chloride | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Naphthalene | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| n-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| n-Heptane | | 16.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| n-Hexane | | 16.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Nitrobenzene | NELAP | 83.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| n-Propylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| o-Xylene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Pentachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| p-Isopropyltoluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Propionitrile | NELAP | 41.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| sec-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Styrene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| tert-Amyl methyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| tert-Butyl alcohol | NELAP | 41.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| tert-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Tetrachloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Tetrahydrofuran | NELAP | 41.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Toluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| TPH - GRO (C6 - C10) | | 419 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| trans-1,2-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Trichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Trichlorofluoromethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Vinyl acetate | NELAP | 41.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Xylenes, Total | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **108.6** | %REC | 1 | 12/21/2015 17:48 | 115108 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **105.4** | %REC | 1 | 12/21/2015 17:48 | 115108 |
| Surr: Toluene-d8 | | 86-116 | | **101.2** | %REC | 1 | 12/21/2015 17:48 | 115108 |

*LCS & LCSD recovered outside upper QC limits for acetone. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-019
**Client Sample ID:** SCI-17B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **25.4** | % | 1 | 12/23/2015 20:07 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **9.21** | mg/Kg-dry | 1 | 12/23/2015 11:27 | 115162 |
| Barium | NELAP | 0.25 | | **184** | mg/Kg-dry | 1 | 12/23/2015 11:27 | 115162 |
| Cadmium | NELAP | 0.20 | | **0.40** | mg/Kg-dry | 1 | 12/23/2015 11:27 | 115162 |
| Chromium | NELAP | 0.50 | | **17.8** | mg/Kg-dry | 1 | 12/23/2015 11:27 | 115162 |
| Lead | NELAP | 1.50 | | **63.1** | mg/Kg-dry | 1 | 12/23/2015 11:27 | 115162 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/23/2015 11:27 | 115162 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 12/23/2015 11:27 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.211** | mg/Kg-dry | 1 | 12/23/2015 12:17 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0437 | J | **0.023** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Anthracene | NELAP | 0.0437 | J | **0.031** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0437 | | **0.0663** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0437 | | **0.0492** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0437 | | **0.0659** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Chrysene | NELAP | 0.0437 | | **0.0518** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Fluoranthene | NELAP | 0.0437 | | **0.130** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Fluorene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Pyrene | NELAP | 0.0437 | | **0.115** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| TPH-DRO (C10 - C21) | | 15.4 | | **24.6** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| TPH-ORO (C21 - C35) | | 15.4 | | **19.7** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **69.2** | %REC | 1 | 12/24/2015 1:39 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **64.9** | %REC | 1 | 12/24/2015 1:39 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **82.2** | %REC | 1 | 12/24/2015 1:39 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,1-Dichloro-2-propanone | | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-019
**Client Sample ID:** SCI-17B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,3-Dichloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1-Chlorobutane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 2,2-Dichloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 2-Butanone | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 2-Chlorotoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 2-Hexanone | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 2-Nitropropane | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 4-Chlorotoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Acetone | NELAP | 47.1 | J | **12** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Acetonitrile | NELAP | 94.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Acrolein | NELAP | 94.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Acrylonitrile | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Allyl chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Benzene | NELAP | 0.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Bromobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Bromochloromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Bromodichloromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Bromoform | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Bromomethane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Carbon disulfide | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Carbon tetrachloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Chlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Chloroethane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Chloroform | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Chloromethane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Cyclohexanone | | 94.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Dibromochloromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Dibromomethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Dichlorodifluoromethane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Diisopropyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Ethyl ether | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Ethyl methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Ethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Ethyl-tert-butyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Hexachlorobutadiene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Hexachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Iodomethane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Isopropylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| m,p-Xylenes | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Methacrylonitrile | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-019
**Client Sample ID:** SCI-17B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Methylacrylate | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Methylene chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Naphthalene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| n-Heptane | | 18.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| n-Hexane | | 18.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Nitrobenzene | NELAP | 94.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Propionitrile | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| tert-Butyl alcohol | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Tetrahydrofuran | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| TPH - GRO (C6 - C10) | | 471 | J | **300** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Vinyl acetate | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **98.4** | %REC | 1 | 12/22/2015 14:11 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | S | **120.9** | %REC | 1 | 12/22/2015 14:11 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **109.6** | %REC | 1 | 12/22/2015 14:11 | 115156 |

*Surrogate recovery is outside QC limits due to matrix interference.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-020
**Client Sample ID:** TB-02
**Matrix:** TRIP BLANK
**Collection Date:** 12/18/2015 17:18

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-020
**Client Sample ID:** TB-02
**Matrix:** TRIP BLANK
**Collection Date:** 12/18/2015 17:18

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Chloroform | NELAP | 5.0 | J | **1.0** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-020
**Client Sample ID:** TB-02
**Matrix:** TRIP BLANK
**Collection Date:** 12/18/2015 17:18

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **85.0** | %REC | 1 | 12/21/2015 13:32 | 115150 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **96.3** | %REC | 1 | 12/21/2015 13:32 | 115150 |
| Surr: Toluene-d8 | | 84.3-114 | | **90.0** | %REC | 1 | 12/21/2015 13:32 | 115150 |

*LCS and LCSD recovered outside upper QC limits for acetone. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Quality Control Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

## EPA SW846 3550C, 5035A, ASTM D2974

**Batch** R213036 **SampType:** LCS Units **%**
SampID: LCS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 12/22/2015 |

**Batch** R213036 **SampType:** LCSQC Units **%**
SampID: LCSQC

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 12/22/2015 |

**Batch** R213088 **SampType:** LCS Units **%**
SampID: LCS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 12/23/2015 |

**Batch** R213088 **SampType:** LCSQC Units **%**
SampID: LCSQC

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 12/23/2015 |

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115162 **SampType:** MBLK Units **mg/Kg-dry**
SampID: MBLK-115162

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Barium | 0.25 | | **< 0.25** | 0.2500 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Silver | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 12/23/2015 |

**Batch** 115162 **SampType:** LCS Units **mg/Kg-dry**
SampID: LCS-115162

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **47.7** | 50.00 | 0 | 95.5 | 85 | 115 | 12/23/2015 |
| Barium | 0.25 | | **195** | 200.0 | 0 | 97.5 | 85 | 115 | 12/23/2015 |
| Cadmium | 0.20 | | **4.91** | 5.000 | 0 | 98.2 | 85 | 115 | 12/23/2015 |
| Chromium | 0.50 | | **20.9** | 20.00 | 0 | 104.4 | 85 | 115 | 12/23/2015 |
| Lead | 1.50 | | **52.2** | 50.00 | 0 | 104.5 | 85 | 115 | 12/23/2015 |
| Selenium | 4.00 | | **49.2** | 50.00 | 0 | 98.5 | 85 | 115 | 12/23/2015 |
| Silver | 0.50 | | **4.66** | 5.000 | 0 | 93.2 | 85 | 115 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115162 **SampType:** MS Units **mg/Kg-dry**

SampID: 15121356-012AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.45 | | **53.2** | 49.02 | 7.147 | 94.0 | 75 | 125 | 12/23/2015 |
| Barium | 0.25 | | **198** | 196.1 | 12.32 | 94.6 | 75 | 125 | 12/23/2015 |
| Cadmium | 0.20 | | **4.86** | 4.902 | 0.1373 | 96.4 | 75 | 125 | 12/23/2015 |
| Chromium | 0.49 | | **29.8** | 19.61 | 7.873 | 111.7 | 75 | 125 | 12/23/2015 |
| Lead | 1.47 | | **61.4** | 49.02 | 10.37 | 104.1 | 75 | 125 | 12/23/2015 |
| Selenium | 3.92 | | **45.3** | 49.02 | 0 | 92.5 | 75 | 125 | 12/23/2015 |
| Silver | 0.49 | | **4.40** | 4.902 | 0 | 89.8 | 75 | 125 | 12/23/2015 |

**Batch** 115162 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**

SampID: 15121356-012AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.45 | | **53.3** | 49.02 | 7.147 | 94.1 | 53.25 | 0.09 | 12/23/2015 |
| Barium | 0.25 | | **201** | 196.1 | 12.32 | 96.1 | 197.7 | 1.53 | 12/23/2015 |
| Cadmium | 0.20 | | **4.88** | 4.902 | 0.1373 | 96.8 | 4.863 | 0.40 | 12/23/2015 |
| Chromium | 0.49 | | **30.0** | 19.61 | 7.873 | 112.8 | 29.77 | 0.75 | 12/23/2015 |
| Lead | 1.47 | | **61.0** | 49.02 | 10.37 | 103.2 | 61.41 | 0.70 | 12/23/2015 |
| Selenium | 3.92 | | **45.6** | 49.02 | 0 | 93.0 | 45.32 | 0.54 | 12/23/2015 |
| Silver | 0.49 | | **4.44** | 4.902 | 0 | 90.6 | 4.402 | 0.89 | 12/23/2015 |

**Batch** 115162 **SampType:** MS Units **mg/Kg-dry**

SampID: 15121421-010AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.45 | | **54.2** | 49.02 | 11.19 | 87.7 | 75 | 125 | 12/23/2015 |
| Barium | 0.25 | | **305** | 196.1 | 104.5 | 102.2 | 75 | 125 | 12/23/2015 |
| Cadmium | 0.20 | | **4.84** | 4.902 | 0.2549 | 93.6 | 75 | 125 | 12/23/2015 |
| Chromium | 0.49 | | **49.4** | 19.61 | 29.93 | 99.3 | 75 | 125 | 12/23/2015 |
| Lead | 1.47 | | **61.6** | 49.02 | 13.46 | 98.1 | 75 | 125 | 12/23/2015 |
| Selenium | 3.92 | | **43.1** | 49.02 | 0 | 87.9 | 75 | 125 | 12/23/2015 |
| Silver | 0.49 | | **4.21** | 4.902 | 0 | 85.8 | 75 | 125 | 12/23/2015 |

**Batch** 115162 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**

SampID: 15121421-010AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.45 | | **56.0** | 49.02 | 11.19 | 91.4 | 54.19 | 3.31 | 12/23/2015 |
| Barium | 0.25 | | **306** | 196.1 | 104.5 | 102.8 | 305.0 | 0.35 | 12/23/2015 |
| Cadmium | 0.20 | | **4.95** | 4.902 | 0.2549 | 95.8 | 4.843 | 2.20 | 12/23/2015 |
| Chromium | 0.49 | | **50.1** | 19.61 | 29.93 | 102.9 | 49.40 | 1.42 | 12/23/2015 |
| Lead | 1.47 | | **62.8** | 49.02 | 13.46 | 100.7 | 61.56 | 2.06 | 12/23/2015 |
| Selenium | 3.92 | | **43.7** | 49.02 | 0 | 89.2 | 43.10 | 1.47 | 12/23/2015 |
| Silver | 0.49 | | **4.27** | 4.902 | 0 | 87.2 | 4.206 | 1.62 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 7471B

**Batch 115165** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115165

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **< 0.010** | 0.01000 | 0 | 0 | -100 | 100 | 12/23/2015 |

**Batch 115165** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115165

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.265** | 0.2500 | 0 | 106.0 | 85 | 115 | 12/23/2015 |

**Batch 115165** **SampType: MS** Units **mg/Kg-dry**

SampID: 15121421-013AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.366** | 0.3022 | 0.02452 | 113.2 | 75 | 125 | 12/23/2015 |

**Batch 115165** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**

SampID: 15121421-013AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.351** | 0.3022 | 0.02452 | 108.1 | 0.3665 | 4.28 | 12/23/2015 |

**Batch 115165** **SampType: MS** Units **mg/Kg**

SampID: 15121540-001AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.317** | 0.2500 | 0.03180 | 114.1 | 75 | 125 | 12/23/2015 |

**Batch 115165** **SampType: MSD** Units **mg/Kg** RPD Limit **15**

SampID: 15121540-001AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.303** | 0.2500 | 0.03180 | 108.3 | 0.3171 | 4.69 | 12/23/2015 |

## SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD

**Batch 115116** **SampType: MBLK** Units **µg/Kg**

SampID: MBLK-115116

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 37.5 | | **ND** | | | | | | 12/22/2015 |
| Aroclor 1221 | 37.5 | | **ND** | | | | | | 12/22/2015 |
| Aroclor 1232 | 37.5 | | **ND** | | | | | | 12/22/2015 |
| Aroclor 1242 | 37.5 | | **ND** | | | | | | 12/22/2015 |
| Aroclor 1248 | 37.5 | | **ND** | | | | | | 12/22/2015 |
| Aroclor 1254 | 37.5 | | **ND** | | | | | | 12/22/2015 |
| Aroclor 1260 | 37.5 | | **ND** | | | | | | 12/22/2015 |
| Surr: Decachlorobiphenyl | | | **8.2** | 8.300 | | 99.0 | 76.4 | 155 | 12/22/2015 |
| Surr: Tetrachloro-meta-xylene | | | **8.0** | 8.300 | | 96.2 | 44.4 | 122 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD

**Batch 115116** **SampType: LCS** Units **µg/Kg**

SampID: LCSPCB-115116

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 37.5 | | **205** | 166.7 | 0 | 123.1 | 63.5 | 130 | 12/22/2015 |
| Aroclor 1260 | 37.5 | | **162** | 166.7 | 0 | 97.5 | 76 | 138 | 12/22/2015 |
| Surr: Decachlorobiphenyl | | | **7.8** | 8.300 | | 93.4 | 76.4 | 155 | 12/22/2015 |
| Surr: Tetrachloro-meta-xylene | | | **8.1** | 8.300 | | 97.7 | 44.4 | 122 | 12/22/2015 |

**Batch 115116** **SampType: MS** Units **µg/Kg-dry**

SampID: 15121421-008AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 44.8 | | **188** | 199.2 | 0 | 94.2 | 35.8 | 143 | 12/22/2015 |
| Aroclor 1260 | 44.8 | | **186** | 199.2 | 0 | 93.5 | 22.3 | 152 | 12/22/2015 |
| Surr: Decachlorobiphenyl | | | **10.2** | 9.919 | | 102.8 | 5 | 156 | 12/22/2015 |
| Surr: Tetrachloro-meta-xylene | | | **10.4** | 9.919 | | 104.9 | 7.35 | 123 | 12/22/2015 |

**Batch 115116** **SampType: MSD** Units **µg/Kg-dry** RPD Limit **40**

SampID: 15121421-008AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 44.4 | | **202** | 197.2 | 0 | 102.3 | 187.7 | 7.23 | 12/22/2015 |
| Aroclor 1260 | 44.4 | | **204** | 197.2 | 0 | 103.7 | 186.3 | 9.27 | 12/22/2015 |
| Surr: Decachlorobiphenyl | | | **10.8** | 9.818 | | 109.8 | | | 12/22/2015 |
| Surr: Tetrachloro-meta-xylene | | | **10.5** | 9.818 | | 106.8 | | | 12/22/2015 |

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115091** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115091

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Anthracene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(a)anthracene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(a)pyrene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(b)fluoranthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(k)fluoranthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Chrysene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Dibenzo(a,h)anthracene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Fluoranthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Fluorene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Pyrene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| TPH-DRO (C10 - C21) | 12.0 | J | **7.5** | | | | | | 12/21/2015 |
| TPH-ORO (C21 - C35) | 12.0 | | **ND** | | | | | | 12/21/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.718** | 0.8350 | | 86.0 | 42.6 | 97.2 | 12/21/2015 |
| Surr: Nitrobenzene-d5 | | | **0.648** | 0.8350 | | 77.6 | 16.7 | 118 | 12/21/2015 |
| Surr: p-Terphenyl-d14 | | | **0.807** | 0.8350 | | 96.6 | 50.1 | 111 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115091** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115091

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **1.52** | 1.670 | 0 | 91.2 | 56.4 | 104 | 12/21/2015 |
| Anthracene | 0.0340 | | **1.40** | 1.670 | 0 | 83.6 | 55.9 | 101 | 12/21/2015 |
| Benzo(a)anthracene | 0.0340 | | **1.42** | 1.670 | 0 | 85.3 | 51.7 | 107 | 12/21/2015 |
| Benzo(a)pyrene | 0.0340 | | **1.50** | 1.670 | 0 | 89.6 | 57.2 | 114 | 12/21/2015 |
| Benzo(b)fluoranthene | 0.0340 | | **1.50** | 1.670 | 0 | 89.9 | 45.3 | 116 | 12/21/2015 |
| Benzo(k)fluoranthene | 0.0340 | | **1.46** | 1.670 | 0 | 87.4 | 58.2 | 114 | 12/21/2015 |
| Chrysene | 0.0340 | | **1.53** | 1.670 | 0 | 91.4 | 58.9 | 102 | 12/21/2015 |
| Dibenzo(a,h)anthracene | 0.0340 | | **1.50** | 1.670 | 0 | 89.9 | 48.9 | 123 | 12/21/2015 |
| Fluoranthene | 0.0340 | | **1.42** | 1.670 | 0 | 85.0 | 54.9 | 108 | 12/21/2015 |
| Fluorene | 0.0340 | | **1.48** | 1.670 | 0 | 88.6 | 58 | 101 | 12/21/2015 |
| Pyrene | 0.0340 | | **1.43** | 1.670 | 0 | 85.4 | 53.4 | 107 | 12/21/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.733** | 0.8350 | | 87.8 | 42.6 | 97.2 | 12/21/2015 |
| Surr: Nitrobenzene-d5 | | | **0.910** | 0.8350 | | 108.9 | 16.7 | 118 | 12/21/2015 |
| Surr: p-Terphenyl-d14 | | | **0.781** | 0.8350 | | 93.5 | 50.1 | 111 | 12/21/2015 |

**Batch 115091** **SampType: LCSG** Units **mg/Kg**

SampID: LCSDRO-115091

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 12.0 | | **24.8** | 33.40 | 0 | 74.3 | 53.7 | 103 | 12/21/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.651** | 0.8350 | | 77.9 | 42.6 | 97.2 | 12/21/2015 |
| Surr: Nitrobenzene-d5 | | | **0.585** | 0.8350 | | 70.1 | 16.7 | 118 | 12/21/2015 |
| Surr: p-Terphenyl-d14 | | | **0.750** | 0.8350 | | 89.8 | 50.1 | 111 | 12/21/2015 |

**Batch 115091** **SampType: MS** Units **mg/Kg-dry**

SampID: 15121421-014AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 403 | J | **300** | 224.1 | 0 | 132.1 | 34.5 | 160 | 12/24/2015 |
| Surr: 2-Fluorobiphenyl | | | **4.25** | 5.604 | | 75.8 | 12 | 133 | 12/24/2015 |
| Surr: Nitrobenzene-d5 | | | **3.72** | 5.604 | | 66.5 | 30.9 | 115 | 12/24/2015 |
| Surr: p-Terphenyl-d14 | | | **4.72** | 5.604 | | 84.2 | 31.5 | 137 | 12/24/2015 |

**Batch 115091** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **30**

SampID: 15121421-014AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 359 | J | **280** | 199.9 | 0 | 142.3 | 296.0 | 0.00 | 12/24/2015 |
| Surr: 2-Fluorobiphenyl | | | **3.51** | 4.996 | | 70.3 | | | 12/24/2015 |
| Surr: Nitrobenzene-d5 | | | **3.08** | 4.996 | | 61.7 | | | 12/24/2015 |
| Surr: p-Terphenyl-d14 | | | **4.16** | 4.996 | | 83.2 | | | 12/24/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115150** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Butanone | 25.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Chloroethyl vinyl ether | 20.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Hexanone | 25.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 4-Methyl-2-pentanone | 25.0 | | **ND** | | | | | | 12/21/2015 |
| Acetone | 25.0 | | **ND** | | | | | | 12/21/2015 |
| Acetonitrile | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/21/2015 |
| Acrylonitrile | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Benzene | 2.0 | | **ND** | | | | | | 12/21/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115150** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Chloromethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Chloroprene | 20.0 | | **ND** | | | | | | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| cis-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Cyclohexanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Diisopropyl ether | 2.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl acetate | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl-tert-butyl ether | 2.0 | | **ND** | | | | | | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Hexachloroethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Iodomethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Methacrylonitrile | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/21/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/21/2015 |
| n-Butyl acetate | 25.0 | | **ND** | | | | | | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/21/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/21/2015 |
| Nitrobenzene | 50.0 | | **ND** | | | | | | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Pentachloroethane | 20.0 | | **ND** | | | | | | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Amyl methyl ether | 2.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Butyl alcohol | 25.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Tetrahydrofuran | 20.0 | | **ND** | | | | | | 12/21/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| trans-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115150** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Vinyl acetate | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/21/2015 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 12/21/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **43.2** | 50.00 | | 86.4 | 74.7 | 129 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **46.6** | 50.00 | | 93.2 | 86 | 119 | 12/21/2015 |
| Surr: Toluene-d8 | | | **44.4** | 50.00 | | 88.9 | 84.3 | 114 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115150** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **48.8** | 50.00 | 0 | 97.7 | 50.56 | 3.44 | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 52.46 | 2.63 | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **40.9** | 50.00 | 0 | 81.9 | 40.70 | 0.56 | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **54.8** | 50.00 | 0 | 109.6 | 55.20 | 0.69 | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **44.8** | 50.00 | 0 | 89.7 | 46.32 | 3.27 | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **97.8** | 125.0 | 0 | 78.3 | 98.80 | 1.00 | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 52.75 | 1.59 | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **51.5** | 50.00 | 0 | 103.1 | 51.91 | 0.73 | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 54.49 | 2.06 | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 50.98 | 3.86 | 12/21/2015 |
| 1,2,3-Trichloropropane | 5.0 | | **41.9** | 50.00 | 0 | 83.9 | 41.18 | 1.80 | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **42.9** | 50.00 | 0 | 85.8 | 43.08 | 0.44 | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 49.37 | 2.05 | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **45.4** | 50.00 | 0 | 90.8 | 45.80 | 0.92 | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **39.7** | 50.00 | 0 | 79.4 | 40.02 | 0.83 | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 48.35 | 3.22 | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **45.4** | 50.00 | 0 | 90.7 | 46.59 | 2.68 | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **46.7** | 50.00 | 0 | 93.4 | 46.86 | 0.38 | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 54.11 | 2.51 | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **45.3** | 50.00 | 0 | 90.7 | 46.64 | 2.85 | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **46.3** | 50.00 | 0 | 92.5 | 46.43 | 0.35 | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **44.4** | 50.00 | 0 | 88.7 | 45.65 | 2.84 | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **45.5** | 50.00 | 0 | 91.1 | 45.36 | 0.37 | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 51.17 | 0.88 | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 52.64 | 1.98 | 12/21/2015 |
| 2-Butanone | 25.0 | | **158** | 125.0 | 0 | 126.0 | 163.7 | 3.85 | 12/21/2015 |
| 2-Chloroethyl vinyl ether | 20.0 | | **51.5** | 50.00 | 0 | 103.0 | 52.79 | 2.47 | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **42.8** | 50.00 | 0 | 85.7 | 43.09 | 0.58 | 12/21/2015 |
| 2-Hexanone | 25.0 | | **111** | 125.0 | 0 | 88.9 | 117.5 | 5.57 | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **480** | 500.0 | 0 | 96.0 | 483.9 | 0.76 | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **43.2** | 50.00 | 0 | 86.4 | 43.32 | 0.30 | 12/21/2015 |
| 4-Methyl-2-pentanone | 25.0 | | **108** | 125.0 | 0 | 86.3 | 108.4 | 0.53 | 12/21/2015 |
| Acetone | 25.0 | S | **199** | 125.0 | 0 | 159.3 | 215.1 | 7.69 | 12/21/2015 |
| Acetonitrile | 50.0 | | **579** | 500.0 | 0 | 115.7 | 593.8 | 2.57 | 12/21/2015 |
| Acrolein | 100 | | **432** | 500.0 | 0 | 86.3 | 432.3 | 0.16 | 12/21/2015 |
| Acrylonitrile | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 52.12 | 0.17 | 12/21/2015 |
| Allyl chloride | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 55.59 | 1.27 | 12/21/2015 |
| Benzene | 2.0 | | **55.4** | 50.00 | 0 | 110.7 | 55.72 | 0.65 | 12/21/2015 |
| Bromobenzene | 5.0 | | **41.3** | 50.00 | 0 | 82.7 | 41.35 | 0.02 | 12/21/2015 |
| Bromochloromethane | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 49.91 | 1.01 | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **54.0** | 50.00 | 0 | 107.9 | 54.79 | 1.54 | 12/21/2015 |
| Bromoform | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 52.14 | 3.59 | 12/21/2015 |
| Bromomethane | 10.0 | | **32.6** | 50.00 | 0 | 65.1 | 32.60 | 0.15 | 12/21/2015 |
| Carbon disulfide | 5.0 | | **57.6** | 50.00 | 0 | 115.1 | 58.56 | 1.74 | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **54.3** | 50.00 | 0 | 108.7 | 55.24 | 1.64 | 12/21/2015 |
| Chlorobenzene | 5.0 | | **47.8** | 50.00 | 0 | 95.7 | 48.76 | 1.93 | 12/21/2015 |
| Chloroethane | 10.0 | | **38.1** | 50.00 | 0 | 76.1 | 38.49 | 1.12 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115150** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **51.1** | 50.00 | 0 | 102.1 | 51.41 | 0.68 | 12/21/2015 |
| Chloromethane | 10.0 | | **39.8** | 50.00 | 0 | 79.6 | 40.76 | 2.33 | 12/21/2015 |
| Chloroprene | 20.0 | | **46.9** | 50.00 | 0 | 93.7 | 48.05 | 2.51 | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 51.95 | 0.68 | 12/21/2015 |
| cis-1,3-Dichloropropene | 5.0 | | **56.7** | 50.00 | 0 | 113.4 | 57.71 | 1.77 | 12/21/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **41.0** | 50.00 | 0 | 82.0 | 42.74 | 4.18 | 12/21/2015 |
| Cyclohexanone | 50.0 | | **566** | 500.0 | 0 | 113.3 | 575.2 | 1.55 | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **48.6** | 50.00 | 0 | 97.2 | 50.95 | 4.76 | 12/21/2015 |
| Dibromomethane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 53.32 | 3.24 | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **48.7** | 50.00 | 0 | 97.5 | 49.19 | 0.92 | 12/21/2015 |
| Diisopropyl ether | 2.0 | | **51.2** | 50.00 | 0 | 102.4 | 52.29 | 2.13 | 12/21/2015 |
| Ethyl acetate | 10.0 | | **51.3** | 50.00 | 0 | 102.7 | 51.84 | 0.97 | 12/21/2015 |
| Ethyl ether | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 53.96 | 2.25 | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **46.3** | 50.00 | 0 | 92.5 | 47.66 | 2.98 | 12/21/2015 |
| Ethylbenzene | 5.0 | | **45.6** | 50.00 | 0 | 91.2 | 46.63 | 2.28 | 12/21/2015 |
| Ethyl-tert-butyl ether | 2.0 | | **51.0** | 50.00 | 0 | 101.9 | 52.75 | 3.45 | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 54.02 | 4.60 | 12/21/2015 |
| Hexachloroethane | 10.0 | | **45.6** | 50.00 | 0 | 91.3 | 46.82 | 2.53 | 12/21/2015 |
| Iodomethane | 5.0 | | **57.8** | 50.00 | 0 | 115.7 | 57.09 | 1.32 | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **47.5** | 50.00 | 0 | 95.1 | 50.02 | 5.08 | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **91.8** | 100.0 | 0 | 91.8 | 93.85 | 2.16 | 12/21/2015 |
| Methacrylonitrile | 10.0 | | **51.9** | 50.00 | 0 | 103.9 | 53.13 | 2.28 | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 51.32 | 2.03 | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **54.1** | 50.00 | 0 | 108.3 | 55.23 | 2.01 | 12/21/2015 |
| Methylacrylate | 10.0 | | **56.1** | 50.00 | 0 | 112.2 | 56.26 | 0.30 | 12/21/2015 |
| Methylene chloride | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 51.14 | 2.49 | 12/21/2015 |
| Naphthalene | 10.0 | | **50.1** | 50.00 | 0 | 100.2 | 51.30 | 2.35 | 12/21/2015 |
| n-Butyl acetate | 25.0 | | **40.8** | 50.00 | 0 | 81.7 | 42.25 | 3.37 | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **45.5** | 50.00 | 0 | 90.9 | 47.12 | 3.56 | 12/21/2015 |
| n-Heptane | 20.0 | | **51.1** | 50.00 | 0 | 102.2 | 53.19 | 4.03 | 12/21/2015 |
| n-Hexane | 20.0 | | **52.9** | 50.00 | 0 | 105.7 | 54.80 | 3.59 | 12/21/2015 |
| Nitrobenzene | 50.0 | | **467** | 500.0 | 0 | 93.3 | 487.8 | 4.41 | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **44.2** | 50.00 | 0 | 88.3 | 45.17 | 2.24 | 12/21/2015 |
| o-Xylene | 5.0 | | **45.7** | 50.00 | 0 | 91.4 | 46.57 | 1.91 | 12/21/2015 |
| Pentachloroethane | 20.0 | | **46.1** | 50.00 | 0 | 92.2 | 46.33 | 0.54 | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **47.2** | 50.00 | 0 | 94.3 | 47.24 | 0.15 | 12/21/2015 |
| Propionitrile | 50.0 | | **579** | 500.0 | 0 | 115.8 | 582.4 | 0.60 | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **45.7** | 50.00 | 0 | 91.5 | 46.63 | 1.93 | 12/21/2015 |
| Styrene | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 48.15 | 2.20 | 12/21/2015 |
| tert-Amyl methyl ether | 2.0 | | **52.4** | 50.00 | 0 | 104.7 | 53.66 | 2.47 | 12/21/2015 |
| tert-Butyl alcohol | 25.0 | | **294** | 250.0 | 0 | 117.4 | 296.4 | 0.93 | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **42.4** | 50.00 | 0 | 84.7 | 42.56 | 0.45 | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 50.92 | 3.66 | 12/21/2015 |
| Tetrahydrofuran | 20.0 | | **50.2** | 50.00 | 0 | 100.3 | 49.90 | 0.50 | 12/21/2015 |
| Toluene | 5.0 | | **46.2** | 50.00 | 0 | 92.3 | 46.99 | 1.78 | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 54.31 | 2.23 | 12/21/2015 |
| trans-1,3-Dichloropropene | 5.0 | | **45.8** | 50.00 | 0 | 91.7 | 47.39 | 3.33 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115150** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **36.8** | 50.00 | 0 | 73.6 | 36.88 | 0.24 | 12/21/2015 |
| Trichloroethene | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 55.02 | 0.91 | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 49.39 | 2.60 | 12/21/2015 |
| Vinyl acetate | 10.0 | | **50.4** | 50.00 | 0 | 100.8 | 52.08 | 3.24 | 12/21/2015 |
| Vinyl chloride | 2.0 | | **39.0** | 50.00 | 0 | 77.9 | 39.20 | 0.59 | 12/21/2015 |
| Xylenes, Total | 5.0 | | **138** | 150.0 | 0 | 91.7 | 140.4 | 2.08 | 12/21/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **105** | 100.0 | 0 | 104.7 | 106.3 | 1.47 | 12/21/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **103** | 100.0 | 0 | 102.5 | 105.1 | 2.47 | 12/21/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **77.8** | 100.0 | 0 | 77.8 | 79.62 | 2.34 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **41.3** | 50.00 | | 82.6 | | | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **46.2** | 50.00 | | 92.5 | | | 12/21/2015 |
| Surr: Toluene-d8 | | | **43.9** | 50.00 | | 87.8 | | | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115150** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 81.9 | 115 | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 79.4 | 124 | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **40.7** | 50.00 | 0 | 81.4 | 74.7 | 116 | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **55.2** | 50.00 | 0 | 110.4 | 72.9 | 121 | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **46.3** | 50.00 | 0 | 92.6 | 80.8 | 111 | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **98.8** | 125.0 | 0 | 79.0 | 66.3 | 130 | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 79.4 | 114 | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 74.1 | 117 | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 81.7 | 116 | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 79.7 | 118 | 12/21/2015 |
| 1,2,3-Trichloropropane | 5.0 | | **41.2** | 50.00 | 0 | 82.4 | 77.3 | 112 | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **43.1** | 50.00 | 0 | 86.2 | 79.9 | 119 | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **49.4** | 50.00 | 0 | 98.7 | 79.3 | 118 | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **45.8** | 50.00 | 0 | 91.6 | 78.7 | 115 | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **40.0** | 50.00 | 0 | 80.0 | 76 | 122 | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 80.8 | 114 | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **46.6** | 50.00 | 0 | 93.2 | 78.3 | 112 | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **46.9** | 50.00 | 0 | 93.7 | 70.6 | 118 | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 79.6 | 113 | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **46.6** | 50.00 | 0 | 93.3 | 77.5 | 115 | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **46.4** | 50.00 | 0 | 92.9 | 78.6 | 117 | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **45.6** | 50.00 | 0 | 91.3 | 78.8 | 112 | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **45.4** | 50.00 | 0 | 90.7 | 77.8 | 114 | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 78.6 | 115 | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 74.9 | 130 | 12/21/2015 |
| 2-Butanone | 25.0 | | **164** | 125.0 | 0 | 131.0 | 70.7 | 136 | 12/21/2015 |
| 2-Chloroethyl vinyl ether | 20.0 | | **52.8** | 50.00 | 0 | 105.6 | 52.5 | 145 | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **43.1** | 50.00 | 0 | 86.2 | 77.4 | 114 | 12/21/2015 |
| 2-Hexanone | 25.0 | | **117** | 125.0 | 0 | 94.0 | 73.3 | 125 | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **484** | 500.0 | 0 | 96.8 | 67.3 | 139 | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **43.3** | 50.00 | 0 | 86.6 | 78.3 | 115 | 12/21/2015 |
| 4-Methyl-2-pentanone | 25.0 | | **108** | 125.0 | 0 | 86.7 | 76.3 | 122 | 12/21/2015 |
| Acetone | 25.0 | S | **215** | 125.0 | 0 | 172.1 | 56.4 | 147 | 12/21/2015 |
| Acetonitrile | 50.0 | | **594** | 500.0 | 0 | 118.8 | 59.3 | 129 | 12/21/2015 |
| Acrolein | 100 | | **432** | 500.0 | 0 | 86.5 | 1 | 201 | 12/21/2015 |
| Acrylonitrile | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 74.1 | 128 | 12/21/2015 |
| Allyl chloride | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 71.5 | 123 | 12/21/2015 |
| Benzene | 2.0 | | **55.7** | 50.00 | 0 | 111.4 | 80 | 114 | 12/21/2015 |
| Bromobenzene | 5.0 | | **41.4** | 50.00 | 0 | 82.7 | 73.2 | 118 | 12/21/2015 |
| Bromochloromethane | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 73.3 | 121 | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **54.8** | 50.00 | 0 | 109.6 | 81.6 | 121 | 12/21/2015 |
| Bromoform | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 83.1 | 127 | 12/21/2015 |
| Bromomethane | 10.0 | | **32.6** | 50.00 | 0 | 65.2 | 44.4 | 154 | 12/21/2015 |
| Carbon disulfide | 5.0 | | **58.6** | 50.00 | 0 | 117.1 | 73.2 | 118 | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **55.2** | 50.00 | 0 | 110.5 | 79.4 | 130 | 12/21/2015 |
| Chlorobenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 81.4 | 110 | 12/21/2015 |
| Chloroethane | 10.0 | | **38.5** | 50.00 | 0 | 77.0 | 52.1 | 137 | 12/21/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121421

**Client Project:** NGA 2015-0461.21

**Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115150** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 82.7 | 116 | 12/21/2015 |
| Chloromethane | 10.0 | | **40.8** | 50.00 | 0 | 81.5 | 48.2 | 144 | 12/21/2015 |
| Chloroprene | 20.0 | | **48.0** | 50.00 | 0 | 96.1 | 80.6 | 126 | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **52.0** | 50.00 | 0 | 103.9 | 78.2 | 116 | 12/21/2015 |
| cis-1,3-Dichloropropene | 5.0 | | **57.7** | 50.00 | 0 | 115.4 | 83 | 119 | 12/21/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **42.7** | 50.00 | 0 | 85.5 | 60.7 | 137 | 12/21/2015 |
| Cyclohexanone | 50.0 | | **575** | 500.0 | 0 | 115.0 | 54.2 | 145 | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 81.2 | 121 | 12/21/2015 |
| Dibromomethane | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 78.3 | 118 | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **49.2** | 50.00 | 0 | 98.4 | 20.6 | 154 | 12/21/2015 |
| Diisopropyl ether | 2.0 | | **52.3** | 50.00 | 0 | 104.6 | 73.1 | 116 | 12/21/2015 |
| Ethyl acetate | 10.0 | | **51.8** | 50.00 | 0 | 103.7 | 73.1 | 116 | 12/21/2015 |
| Ethyl ether | 5.0 | | **54.0** | 50.00 | 0 | 107.9 | 75.2 | 109 | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **47.7** | 50.00 | 0 | 95.3 | 80.1 | 113 | 12/21/2015 |
| Ethylbenzene | 5.0 | | **46.6** | 50.00 | 0 | 93.3 | 77.2 | 113 | 12/21/2015 |
| Ethyl-tert-butyl ether | 2.0 | | **52.8** | 50.00 | 0 | 105.5 | 75 | 118 | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 77.3 | 123 | 12/21/2015 |
| Hexachloroethane | 10.0 | | **46.8** | 50.00 | 0 | 93.6 | 74.6 | 117 | 12/21/2015 |
| Iodomethane | 5.0 | | **57.1** | 50.00 | 0 | 114.2 | 61.3 | 140 | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 81.3 | 114 | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **93.8** | 100.0 | 0 | 93.8 | 79.6 | 113 | 12/21/2015 |
| Methacrylonitrile | 10.0 | | **53.1** | 50.00 | 0 | 106.3 | 77.2 | 125 | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 74.2 | 121 | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **55.2** | 50.00 | 0 | 110.5 | 76.8 | 117 | 12/21/2015 |
| Methylacrylate | 10.0 | | **56.3** | 50.00 | 0 | 112.5 | 78 | 124 | 12/21/2015 |
| Methylene chloride | 5.0 | | **51.1** | 50.00 | 0 | 102.3 | 74.1 | 114 | 12/21/2015 |
| Naphthalene | 10.0 | | **51.3** | 50.00 | 0 | 102.6 | 77.9 | 122 | 12/21/2015 |
| n-Butyl acetate | 25.0 | | **42.2** | 50.00 | 0 | 84.5 | 74 | 120 | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 71.1 | 120 | 12/21/2015 |
| n-Heptane | 20.0 | | **53.2** | 50.00 | 0 | 106.4 | 67.4 | 129 | 12/21/2015 |
| n-Hexane | 20.0 | | **54.8** | 50.00 | 0 | 109.6 | 68.4 | 126 | 12/21/2015 |
| Nitrobenzene | 50.0 | | **488** | 500.0 | 0 | 97.6 | 37.9 | 181 | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **45.2** | 50.00 | 0 | 90.3 | 74.6 | 118 | 12/21/2015 |
| o-Xylene | 5.0 | | **46.6** | 50.00 | 0 | 93.1 | 80.1 | 111 | 12/21/2015 |
| Pentachloroethane | 20.0 | | **46.3** | 50.00 | 0 | 92.7 | 78.8 | 117 | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **47.2** | 50.00 | 0 | 94.5 | 77.6 | 118 | 12/21/2015 |
| Propionitrile | 50.0 | | **582** | 500.0 | 0 | 116.5 | 72.9 | 137 | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **46.6** | 50.00 | 0 | 93.3 | 74.5 | 119 | 12/21/2015 |
| Styrene | 5.0 | | **48.2** | 50.00 | 0 | 96.3 | 83.4 | 113 | 12/21/2015 |
| tert-Amyl methyl ether | 2.0 | | **53.7** | 50.00 | 0 | 107.3 | 78.7 | 117 | 12/21/2015 |
| tert-Butyl alcohol | 25.0 | | **296** | 250.0 | 0 | 118.5 | 58.1 | 139 | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **42.6** | 50.00 | 0 | 85.1 | 75.9 | 114 | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 72.5 | 125 | 12/21/2015 |
| Tetrahydrofuran | 20.0 | | **49.9** | 50.00 | 0 | 99.8 | 69.6 | 125 | 12/21/2015 |
| Toluene | 5.0 | | **47.0** | 50.00 | 0 | 94.0 | 77.5 | 113 | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 79 | 114 | 12/21/2015 |
| trans-1,3-Dichloropropene | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 78 | 115 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115150** **SampType: LCS** Units **µg/L**

SampID: LCS-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **36.9** | 50.00 | 0 | 73.8 | 63.3 | 128 | 12/21/2015 |
| Trichloroethene | 5.0 | | **55.0** | 50.00 | 0 | 110.0 | 84.4 | 114 | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 75.2 | 132 | 12/21/2015 |
| Vinyl acetate | 10.0 | | **52.1** | 50.00 | 0 | 104.2 | 64.5 | 127 | 12/21/2015 |
| Vinyl chloride | 2.0 | | **39.2** | 50.00 | 0 | 78.4 | 58 | 134 | 12/21/2015 |
| Xylenes, Total | 5.0 | | **140** | 150.0 | 0 | 93.6 | 80.1 | 111 | 12/21/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **106** | 100.0 | 0 | 106.3 | 78.2 | 116 | 12/21/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **105** | 100.0 | 0 | 105.1 | 78 | 119 | 12/21/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **79.6** | 100.0 | 0 | 79.6 | 60.7 | 137 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **41.5** | 50.00 | | 83.0 | 74.7 | 129 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **46.2** | 50.00 | | 92.3 | 86 | 119 | 12/21/2015 |
| Surr: Toluene-d8 | | | **45.0** | 50.00 | | 90.1 | 84.1 | 114 | 12/21/2015 |

**Batch 115150** **SampType: LCSGD** Units **µg/L** RPD Limit **20**

SampID: LCSGD-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1850** | 2000 | 0 | 92.7 | 1980 | 6.58 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **42.2** | 50.00 | | 84.4 | | | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **46.7** | 50.00 | | 93.4 | | | 12/21/2015 |
| Surr: Toluene-d8 | | | **43.9** | 50.00 | | 87.8 | | | 12/21/2015 |

**Batch 115150** **SampType: LCSG** Units **µg/L**

SampID: LCSG-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1980** | 2000 | 0 | 99.0 | 70 | 130 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **41.9** | 50.00 | | 83.8 | 74.7 | 129 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **47.1** | 50.00 | | 94.2 | 86 | 119 | 12/21/2015 |
| Surr: Toluene-d8 | | | **45.0** | 50.00 | | 90.1 | 84.3 | 114 | 12/21/2015 |

**Batch 115150** **SampType: MS** Units **µg/L**

SampID: 15121391-002BMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 2.0 | | **54.4** | 50.00 | 2.930 | 103.0 | 62.5 | 121 | 12/21/2015 |
| Ethylbenzene | 2.0 | | **42.0** | 50.00 | 0 | 84.0 | 74.4 | 130 | 12/21/2015 |
| m,p-Xylenes | 2.0 | S | **21.6** | 50.00 | 0 | 43.1 | 70.5 | 126 | 12/21/2015 |
| o-Xylene | 2.0 | | **40.4** | 50.00 | 0 | 80.8 | 71.2 | 124 | 12/21/2015 |
| Toluene | 2.0 | | **37.8** | 50.00 | 0 | 75.5 | 69.5 | 118 | 12/21/2015 |
| Xylenes, Total | 5.0 | S | **62.0** | 100.0 | 0 | 62.0 | 71.1 | 125 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **40.4** | 50.00 | | 80.8 | 74.7 | 129 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **45.0** | 50.00 | | 90.1 | 86 | 119 | 12/21/2015 |
| Surr: Toluene-d8 | | | **44.2** | 50.00 | | 88.4 | 84.3 | 114 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115150** **SampType:** **MSD** Units **µg/L** RPD Limit **20**

SampID: 15121391-002BMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 2.0 | | **54.2** | 50.00 | 2.930 | 102.5 | 54.43 | 0.46 | 12/21/2015 |
| Ethylbenzene | 2.0 | | **41.8** | 50.00 | 0 | 83.6 | 41.98 | 0.45 | 12/21/2015 |
| m,p-Xylenes | 2.0 | S | **19.6** | 50.00 | 0 | 39.3 | 21.55 | 9.22 | 12/21/2015 |
| o-Xylene | 2.0 | | **39.6** | 50.00 | 0 | 79.3 | 40.40 | 1.87 | 12/21/2015 |
| Toluene | 2.0 | | **36.0** | 50.00 | 0 | 72.1 | 37.76 | 4.69 | 12/21/2015 |
| Xylenes, Total | 5.0 | S | **59.3** | 100.0 | 0 | 59.3 | 61.95 | 4.37 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **40.6** | 50.00 | | 81.1 | | | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **44.8** | 50.00 | | 89.7 | | | 12/21/2015 |
| Surr: Toluene-d8 | | | **43.7** | 50.00 | | 87.4 | | | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/21/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/21/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/21/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/21/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/21/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/21/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/21/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/21/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/21/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.9** | 50.00 | | 99.8 | 72.2 | 131 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.4 | 82.1 | 116 | 12/21/2015 |
| Surr: Toluene-d8 | | | **49.6** | 50.00 | | 99.3 | 86 | 116 | 12/21/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 83.1 | 114 | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 78.5 | 119 | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 67.4 | 120 | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 75.4 | 121 | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 81.1 | 111 | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **122** | 125.0 | 0 | 97.4 | 55.4 | 131 | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.1** | 50.00 | 0 | 106.1 | 80.1 | 116 | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **54.4** | 50.00 | 0 | 108.7 | 73.1 | 121 | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 82.2 | 114 | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 81.7 | 130 | 12/21/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **48.3** | 50.00 | 0 | 96.6 | 67.8 | 118 | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 82.1 | 127 | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **56.5** | 50.00 | 0 | 112.9 | 72.3 | 141 | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **55.2** | 50.00 | 0 | 110.3 | 79.7 | 123 | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 62.1 | 123 | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.0** | 50.00 | 0 | 95.9 | 82.4 | 112 | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 82.7 | 119 | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 72.8 | 120 | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 80 | 116 | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 81.5 | 125 | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **55.0** | 50.00 | 0 | 109.9 | 82 | 124 | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.4** | 50.00 | 0 | 98.9 | 79.8 | 113 | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **55.0** | 50.00 | 0 | 110.1 | 81.1 | 124 | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **54.4** | 50.00 | 0 | 108.7 | 77.2 | 113 | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **55.1** | 50.00 | 0 | 110.2 | 76.6 | 121 | 12/21/2015 |
| 2-Butanone | 50.0 | | **141** | 125.0 | 0 | 112.8 | 62.8 | 131 | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **54.5** | 50.00 | 0 | 108.9 | 78.8 | 121 | 12/21/2015 |
| 2-Hexanone | 50.0 | | **134** | 125.0 | 0 | 107.4 | 63.1 | 125 | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **580** | 500.0 | 0 | 115.9 | 61.2 | 129 | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **55.4** | 50.00 | 0 | 110.8 | 77.6 | 124 | 12/21/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **123** | 125.0 | 0 | 98.7 | 60.6 | 126 | 12/21/2015 |
| Acetone | 50.0 | | **168** | 125.0 | 0 | 134.3 | 39.5 | 159 | 12/21/2015 |
| Acetonitrile | 100 | | **533** | 500.0 | 0 | 106.6 | 64.8 | 123 | 12/21/2015 |
| Acrolein | 100 | | **491** | 500.0 | 0 | 98.2 | 1 | 167 | 12/21/2015 |
| Acrylonitrile | 10.0 | | **50.5** | 50.00 | 0 | 101.0 | 67 | 124 | 12/21/2015 |
| Allyl chloride | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 58.5 | 129 | 12/21/2015 |
| Benzene | 1.0 | | **54.2** | 50.00 | 0 | 108.4 | 80.8 | 117 | 12/21/2015 |
| Bromobenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.3 | 79.6 | 117 | 12/21/2015 |
| Bromochloromethane | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 70.7 | 121 | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 80.7 | 121 | 12/21/2015 |
| Bromoform | 5.0 | | **56.1** | 50.00 | 0 | 112.3 | 79.8 | 118 | 12/21/2015 |
| Bromomethane | 10.0 | | **34.3** | 50.00 | 0 | 68.6 | 1 | 175 | 12/21/2015 |
| Carbon disulfide | 5.0 | | **53.3** | 50.00 | 0 | 106.7 | 62.8 | 123 | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **56.3** | 50.00 | 0 | 112.6 | 77.6 | 123 | 12/21/2015 |
| Chlorobenzene | 5.0 | | **54.0** | 50.00 | 0 | 107.9 | 85.6 | 116 | 12/21/2015 |
| Chloroethane | 10.0 | | **52.4** | 50.00 | 0 | 104.8 | 60.2 | 125 | 12/21/2015 |
| Chloroform | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 77.9 | 116 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **42.4** | 50.00 | 0 | 84.7 | 29.9 | 157 | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 80.1 | 116 | 12/21/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **54.2** | 50.00 | 0 | 108.3 | 80.5 | 121 | 12/21/2015 |
| Cyclohexanone | 100 | | **470** | 500.0 | 0 | 94.0 | 45.4 | 128 | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 84.3 | 116 | 12/21/2015 |
| Dibromomethane | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 76.6 | 115 | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **38.9** | 50.00 | 0 | 77.9 | 1 | 200 | 12/21/2015 |
| Diisopropyl ether | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 73.6 | 119 | 12/21/2015 |
| Ethyl ether | 5.0 | | **48.5** | 50.00 | 0 | 97.1 | 73.4 | 116 | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 76.2 | 120 | 12/21/2015 |
| Ethylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 84.8 | 116 | 12/21/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **49.9** | 50.00 | 0 | 99.7 | 73.8 | 119 | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **55.3** | 50.00 | 0 | 110.7 | 74 | 135 | 12/21/2015 |
| Hexachloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 76.4 | 121 | 12/21/2015 |
| Iodomethane | 10.0 | | **46.8** | 50.00 | 0 | 93.5 | 38.7 | 161 | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 85 | 125 | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **111** | 100.0 | 0 | 111.0 | 85.3 | 120 | 12/21/2015 |
| Methacrylonitrile | 50.0 | | **50.6** | 50.00 | 0 | 101.3 | 65.7 | 120 | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 69.1 | 114 | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **48.6** | 50.00 | 0 | 97.3 | 66.6 | 125 | 12/21/2015 |
| Methylacrylate | 10.0 | | **53.4** | 50.00 | 0 | 106.7 | 69.7 | 121 | 12/21/2015 |
| Methylene chloride | 5.0 | | **53.2** | 50.00 | 0 | 106.3 | 73.4 | 115 | 12/21/2015 |
| Naphthalene | 10.0 | | **50.0** | 50.00 | 0 | 100.0 | 70.1 | 134 | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **57.7** | 50.00 | 0 | 115.4 | 78.4 | 138 | 12/21/2015 |
| n-Heptane | 20.0 | | **56.9** | 50.00 | 0 | 113.8 | 74.3 | 125 | 12/21/2015 |
| n-Hexane | 20.0 | | **56.5** | 50.00 | 0 | 112.9 | 66.3 | 129 | 12/21/2015 |
| Nitrobenzene | 100 | | **538** | 500.0 | 0 | 107.5 | 20.1 | 165 | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **55.2** | 50.00 | 0 | 110.5 | 79.1 | 125 | 12/21/2015 |
| o-Xylene | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 81.9 | 118 | 12/21/2015 |
| Pentachloroethane | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 72.7 | 123 | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 82.7 | 129 | 12/21/2015 |
| Propionitrile | 50.0 | | **534** | 500.0 | 0 | 106.9 | 64.3 | 121 | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 81.3 | 125 | 12/21/2015 |
| Styrene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 88.2 | 122 | 12/21/2015 |
| tert-Amyl methyl ether | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 74.5 | 120 | 12/21/2015 |
| tert-Butyl alcohol | 50.0 | | **260** | 250.0 | 0 | 104.0 | 51.3 | 129 | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 74.8 | 125 | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 84.2 | 122 | 12/21/2015 |
| Tetrahydrofuran | 50.0 | J | **49** | 50.00 | 0 | 98.5 | 61 | 118 | 12/21/2015 |
| Toluene | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 81.3 | 113 | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 78.2 | 118 | 12/21/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.4** | 50.00 | 0 | 104.7 | 81.7 | 124 | 12/21/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 63.9 | 117 | 12/21/2015 |
| Trichloroethene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 81 | 123 | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **53.8** | 50.00 | 0 | 107.7 | 66.8 | 131 | 12/21/2015 |
| Vinyl acetate | 50.0 | | **52.6** | 50.00 | 0 | 105.3 | 64.3 | 122 | 12/21/2015 |
| Vinyl chloride | 2.0 | | **50.1** | 50.00 | 0 | 100.2 | 45.2 | 140 | 12/21/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **165** | 150.0 | 0 | 110.1 | 85.3 | 118 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.5** | 50.00 | | 99.1 | 72.2 | 131 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **51.1** | 50.00 | | 102.2 | 82.1 | 116 | 12/21/2015 |
| Surr: Toluene-d8 | | | **47.5** | 50.00 | | 94.9 | 86 | 116 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 50.75 | 0.73 | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **55.5** | 50.00 | 0 | 111.1 | 54.41 | 2.04 | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 48.89 | 2.48 | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **56.4** | 50.00 | 0 | 112.7 | 55.31 | 1.88 | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 49.01 | 2.10 | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **123** | 125.0 | 0 | 98.4 | 121.8 | 0.96 | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.1 | 53.06 | 0.92 | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **54.5** | 50.00 | 0 | 109.1 | 54.37 | 0.29 | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **56.0** | 50.00 | 0 | 112.0 | 55.32 | 1.24 | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **56.0** | 50.00 | 0 | 112.1 | 54.16 | 3.39 | 12/21/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **50.4** | 50.00 | 0 | 100.8 | 48.29 | 4.30 | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 50.18 | 0.76 | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **56.8** | 50.00 | 0 | 113.7 | 56.46 | 0.67 | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 55.16 | 0.29 | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 48.09 | 2.97 | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 47.96 | 1.45 | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 53.31 | 0.22 | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 52.14 | 2.22 | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **53.9** | 50.00 | 0 | 107.9 | 52.96 | 1.83 | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 52.97 | 0.68 | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **55.0** | 50.00 | 0 | 110.1 | 54.95 | 0.16 | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 49.44 | 0.83 | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 55.04 | 1.35 | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 54.36 | 0.42 | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 55.12 | 0.83 | 12/21/2015 |
| 2-Butanone | 50.0 | | **150** | 125.0 | 0 | 119.9 | 141.0 | 6.07 | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 54.47 | 0.77 | 12/21/2015 |
| 2-Hexanone | 50.0 | | **142** | 125.0 | 0 | 113.8 | 134.2 | 5.80 | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **604** | 500.0 | 0 | 120.7 | 579.5 | 4.09 | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 55.39 | 1.22 | 12/21/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **128** | 125.0 | 0 | 102.6 | 123.4 | 3.80 | 12/21/2015 |
| Acetone | 50.0 | | **180** | 125.0 | 0 | 143.9 | 167.9 | 6.92 | 12/21/2015 |
| Acetonitrile | 100 | | **555** | 500.0 | 0 | 111.1 | 533.1 | 4.11 | 12/21/2015 |
| Acrolein | 100 | | **494** | 500.0 | 0 | 98.8 | 491.1 | 0.59 | 12/21/2015 |
| Acrylonitrile | 10.0 | | **51.7** | 50.00 | 0 | 103.3 | 50.51 | 2.27 | 12/21/2015 |
| Allyl chloride | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 53.65 | 0.24 | 12/21/2015 |
| Benzene | 1.0 | | **55.1** | 50.00 | 0 | 110.1 | 54.20 | 1.57 | 12/21/2015 |
| Bromobenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 50.65 | 1.47 | 12/21/2015 |
| Bromochloromethane | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 52.79 | 0.89 | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **54.0** | 50.00 | 0 | 107.9 | 53.04 | 1.72 | 12/21/2015 |
| Bromoform | 5.0 | | **56.0** | 50.00 | 0 | 111.9 | 56.14 | 0.34 | 12/21/2015 |
| Bromomethane | 10.0 | | **37.0** | 50.00 | 0 | 74.0 | 34.28 | 7.58 | 12/21/2015 |
| Carbon disulfide | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 53.34 | 0.97 | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **57.2** | 50.00 | 0 | 114.5 | 56.28 | 1.67 | 12/21/2015 |
| Chlorobenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 53.97 | 1.23 | 12/21/2015 |
| Chloroethane | 10.0 | | **52.9** | 50.00 | 0 | 105.9 | 52.42 | 0.97 | 12/21/2015 |
| Chloroform | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 53.23 | 1.07 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115107 **SampType:** LCSD Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **42.8** | 50.00 | 0 | 85.6 | 42.35 | 1.03 | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 53.19 | 1.34 | 12/21/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **54.9** | 50.00 | 0 | 109.9 | 54.16 | 1.43 | 12/21/2015 |
| Cyclohexanone | 100 | | **464** | 500.0 | 0 | 92.8 | 470.0 | 1.26 | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 52.09 | 1.07 | 12/21/2015 |
| Dibromomethane | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 51.89 | 2.17 | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **38.0** | 50.00 | 0 | 76.0 | 38.93 | 2.37 | 12/21/2015 |
| Diisopropyl ether | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 49.51 | 2.45 | 12/21/2015 |
| Ethyl ether | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 48.54 | 3.46 | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 50.25 | 2.73 | 12/21/2015 |
| Ethylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 52.21 | 1.25 | 12/21/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 49.87 | 2.16 | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **55.9** | 50.00 | 0 | 111.7 | 55.34 | 0.94 | 12/21/2015 |
| Hexachloroethane | 5.0 | | **53.4** | 50.00 | 0 | 106.7 | 53.59 | 0.45 | 12/21/2015 |
| Iodomethane | 10.0 | | **48.3** | 50.00 | 0 | 96.6 | 46.75 | 3.22 | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.7 | 52.59 | 0.46 | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **110** | 100.0 | 0 | 110.0 | 111.0 | 0.90 | 12/21/2015 |
| Methacrylonitrile | 50.0 | | **53.1** | 50.00 | 0 | 106.2 | 50.63 | 4.76 | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 51.79 | 4.73 | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **50.6** | 50.00 | 0 | 101.1 | 48.65 | 3.87 | 12/21/2015 |
| Methylacrylate | 10.0 | | **56.0** | 50.00 | 0 | 111.9 | 53.35 | 4.76 | 12/21/2015 |
| Methylene chloride | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 53.16 | 2.27 | 12/21/2015 |
| Naphthalene | 10.0 | | **51.9** | 50.00 | 0 | 103.7 | 50.02 | 3.63 | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **56.5** | 50.00 | 0 | 112.9 | 57.69 | 2.14 | 12/21/2015 |
| n-Heptane | 20.0 | | **57.4** | 50.00 | 0 | 114.8 | 56.88 | 0.91 | 12/21/2015 |
| n-Hexane | 20.0 | | **56.4** | 50.00 | 0 | 112.8 | 56.47 | 0.12 | 12/21/2015 |
| Nitrobenzene | 100 | | **550** | 500.0 | 0 | 110.0 | 537.7 | 2.25 | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 55.24 | 0.67 | 12/21/2015 |
| o-Xylene | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 54.19 | 0.50 | 12/21/2015 |
| Pentachloroethane | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 53.79 | 9.56 | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 54.03 | 0.59 | 12/21/2015 |
| Propionitrile | 50.0 | | **552** | 500.0 | 0 | 110.5 | 534.4 | 3.31 | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **53.1** | 50.00 | 0 | 106.3 | 53.22 | 0.17 | 12/21/2015 |
| Styrene | 5.0 | | **55.1** | 50.00 | 0 | 110.1 | 55.29 | 0.42 | 12/21/2015 |
| tert-Amyl methyl ether | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 49.84 | 3.18 | 12/21/2015 |
| tert-Butyl alcohol | 50.0 | | **273** | 250.0 | 0 | 109.4 | 259.9 | 5.06 | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.1 | 54.49 | 0.77 | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 49.61 | 8.03 | 12/21/2015 |
| Tetrahydrofuran | 50.0 | | **52.5** | 50.00 | 0 | 105.0 | 49.26 | 6.39 | 12/21/2015 |
| Toluene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 52.62 | 1.57 | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.6** | 50.00 | 0 | 109.1 | 54.31 | 0.48 | 12/21/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.8** | 50.00 | 0 | 105.7 | 52.36 | 0.89 | 12/21/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 50.36 | 3.01 | 12/21/2015 |
| Trichloroethene | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 55.32 | 0.36 | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 53.85 | 0.43 | 12/21/2015 |
| Vinyl acetate | 50.0 | | **52.7** | 50.00 | 0 | 105.4 | 52.63 | 0.15 | 12/21/2015 |
| Vinyl chloride | 2.0 | | **50.5** | 50.00 | 0 | 101.0 | 50.08 | 0.85 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115107** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **164** | 150.0 | 0 | 109.3 | 165.2 | 0.77 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.3** | 50.00 | | 100.6 | | | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.5** | 50.00 | | 101.0 | | | 12/21/2015 |
| Surr: Toluene-d8 | | | **47.6** | 50.00 | | 95.2 | | | 12/21/2015 |

**Batch 115107** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1890** | 2000 | 0 | 94.3 | 70 | 130 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.5** | 50.00 | | 99.1 | 72.2 | 131 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.9** | 50.00 | | 101.8 | 82.1 | 116 | 12/21/2015 |
| Surr: Toluene-d8 | | | **49.3** | 50.00 | | 98.6 | 86 | 116 | 12/21/2015 |

**Batch 115107** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1970** | 2000 | 0 | 98.6 | 1885 | 4.54 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.5** | 50.00 | | 99.0 | | | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.6** | 50.00 | | 101.2 | | | 12/21/2015 |
| Surr: Toluene-d8 | | | **50.1** | 50.00 | | 100.2 | | | 12/21/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115108 **SampType:** MBLK Units **µg/Kg**

SampID: MBLK-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/21/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/21/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/21/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/21/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115108** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/21/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/21/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/21/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/21/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/21/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115108** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/21/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.7** | 50.00 | | 101.3 | 72.2 | 131 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.1** | 50.00 | | 100.2 | 82.1 | 116 | 12/21/2015 |
| Surr: Toluene-d8 | | | **49.8** | 50.00 | | 99.6 | 86 | 116 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115108** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **52.7** | 50.00 | 0 | 105.3 | 53.43 | 1.43 | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 53.20 | 0.15 | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 49.54 | 0.45 | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 50.98 | 3.72 | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **49.5** | 50.00 | 0 | 98.9 | 50.10 | 1.27 | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **122** | 125.0 | 0 | 97.7 | 122.2 | 0.08 | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **52.4** | 50.00 | 0 | 104.7 | 52.74 | 0.74 | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 51.75 | 1.75 | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 54.89 | 2.02 | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 57.22 | 8.62 | 12/21/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **49.2** | 50.00 | 0 | 98.5 | 49.75 | 1.01 | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 54.12 | 4.00 | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 58.14 | 9.65 | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.7 | 55.73 | 4.35 | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 48.72 | 0.94 | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **49.4** | 50.00 | 0 | 98.9 | 50.09 | 1.31 | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 53.75 | 2.33 | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **51.9** | 50.00 | 0 | 103.9 | 52.08 | 0.29 | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 51.24 | 0.68 | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 56.13 | 3.50 | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 54.95 | 3.09 | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 50.76 | 1.09 | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **52.0** | 50.00 | 0 | 103.9 | 54.99 | 5.69 | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 53.44 | 1.02 | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **52.2** | 50.00 | 0 | 104.5 | 52.03 | 0.40 | 12/21/2015 |
| 2-Butanone | 50.0 | | **159** | 125.0 | 0 | 126.9 | 160.5 | 1.20 | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 53.28 | 2.72 | 12/21/2015 |
| 2-Hexanone | 50.0 | | **148** | 125.0 | 0 | 118.3 | 151.8 | 2.63 | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **524** | 500.0 | 0 | 104.9 | 534.7 | 1.94 | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 54.90 | 3.09 | 12/21/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **125** | 125.0 | 0 | 99.6 | 127.8 | 2.63 | 12/21/2015 |
| Acetone | 50.0 | S | **208** | 125.0 | 0 | 166.6 | 205.4 | 1.36 | 12/21/2015 |
| Acetonitrile | 100 | | **544** | 500.0 | 0 | 108.9 | 531.0 | 2.48 | 12/21/2015 |
| Acrolein | 100 | | **466** | 500.0 | 0 | 93.1 | 484.4 | 3.97 | 12/21/2015 |
| Acrylonitrile | 10.0 | | **51.9** | 50.00 | 0 | 103.8 | 50.92 | 1.89 | 12/21/2015 |
| Allyl chloride | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 52.07 | 1.53 | 12/21/2015 |
| Benzene | 1.0 | | **52.5** | 50.00 | 0 | 105.0 | 53.58 | 2.00 | 12/21/2015 |
| Bromobenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.3 | 51.06 | 0.81 | 12/21/2015 |
| Bromochloromethane | 5.0 | | **52.6** | 50.00 | 0 | 105.1 | 53.26 | 1.30 | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **52.1** | 50.00 | 0 | 104.1 | 51.89 | 0.35 | 12/21/2015 |
| Bromoform | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 52.47 | 2.92 | 12/21/2015 |
| Bromomethane | 10.0 | | **32.8** | 50.00 | 0 | 65.7 | 25.50 | 25.16 | 12/21/2015 |
| Carbon disulfide | 5.0 | | **47.7** | 50.00 | 0 | 95.3 | 49.01 | 2.79 | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 54.96 | 1.97 | 12/21/2015 |
| Chlorobenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 52.77 | 2.47 | 12/21/2015 |
| Chloroethane | 10.0 | | **43.2** | 50.00 | 0 | 86.5 | 43.98 | 1.67 | 12/21/2015 |
| Chloroform | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 52.12 | 0.19 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115108** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **36.4** | 50.00 | 0 | 72.9 | 37.65 | 3.29 | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 52.89 | 0.45 | 12/21/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **53.4** | 50.00 | 0 | 106.8 | 53.49 | 0.17 | 12/21/2015 |
| Cyclohexanone | 100 | | **504** | 500.0 | 0 | 100.8 | 517.0 | 2.58 | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 52.20 | 1.78 | 12/21/2015 |
| Dibromomethane | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 53.08 | 2.75 | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **25.6** | 50.00 | 0 | 51.2 | 27.38 | 6.72 | 12/21/2015 |
| Diisopropyl ether | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 50.98 | 0.41 | 12/21/2015 |
| Ethyl ether | 5.0 | | **47.9** | 50.00 | 0 | 95.7 | 48.10 | 0.48 | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **50.9** | 50.00 | 0 | 101.9 | 51.80 | 1.69 | 12/21/2015 |
| Ethylbenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 56.04 | 4.40 | 12/21/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **51.3** | 50.00 | 0 | 102.7 | 51.53 | 0.39 | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 55.47 | 3.34 | 12/21/2015 |
| Hexachloroethane | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 54.95 | 1.60 | 12/21/2015 |
| Iodomethane | 10.0 | | **46.1** | 50.00 | 0 | 92.2 | 43.61 | 5.51 | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 55.73 | 3.51 | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **109** | 100.0 | 0 | 108.6 | 113.7 | 4.56 | 12/21/2015 |
| Methacrylonitrile | 50.0 | | **51.6** | 50.00 | 0 | 103.1 | 51.79 | 0.45 | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 51.97 | 0.17 | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **50.5** | 50.00 | 0 | 101.0 | 51.14 | 1.30 | 12/21/2015 |
| Methylacrylate | 10.0 | | **52.7** | 50.00 | 0 | 105.4 | 54.23 | 2.88 | 12/21/2015 |
| Methylene chloride | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 52.16 | 1.27 | 12/21/2015 |
| Naphthalene | 10.0 | | **49.9** | 50.00 | 0 | 99.9 | 52.24 | 4.52 | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 60.30 | 7.25 | 12/21/2015 |
| n-Heptane | 20.0 | | **55.7** | 50.00 | 0 | 111.4 | 59.20 | 6.11 | 12/21/2015 |
| n-Hexane | 20.0 | | **53.4** | 50.00 | 0 | 106.9 | 55.74 | 4.19 | 12/21/2015 |
| Nitrobenzene | 100 | | **488** | 500.0 | 0 | 97.5 | 514.4 | 5.33 | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 55.31 | 3.29 | 12/21/2015 |
| o-Xylene | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 53.60 | 2.46 | 12/21/2015 |
| Pentachloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 51.81 | 2.32 | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **55.1** | 50.00 | 0 | 110.2 | 58.56 | 6.12 | 12/21/2015 |
| Propionitrile | 50.0 | | **530** | 500.0 | 0 | 105.9 | 532.8 | 0.59 | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 56.29 | 3.05 | 12/21/2015 |
| Styrene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 53.46 | 2.56 | 12/21/2015 |
| tert-Amyl methyl ether | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 51.02 | 0.20 | 12/21/2015 |
| tert-Butyl alcohol | 50.0 | | **248** | 250.0 | 0 | 99.1 | 255.5 | 3.08 | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.5 | 48.66 | 0.14 | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 54.62 | 3.58 | 12/21/2015 |
| Tetrahydrofuran | 50.0 | J | **49** | 50.00 | 0 | 98.5 | 49.14 | 0.00 | 12/21/2015 |
| Toluene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 53.13 | 4.07 | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 53.89 | 0.22 | 12/21/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.4** | 50.00 | 0 | 104.9 | 53.91 | 2.76 | 12/21/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 52.74 | 1.99 | 12/21/2015 |
| Trichloroethene | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 53.12 | 1.56 | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **49.4** | 50.00 | 0 | 98.9 | 50.23 | 1.57 | 12/21/2015 |
| Vinyl acetate | 50.0 | | **51.7** | 50.00 | 0 | 103.4 | 55.44 | 7.00 | 12/21/2015 |
| Vinyl chloride | 2.0 | | **43.9** | 50.00 | 0 | 87.9 | 45.35 | 3.16 | 12/21/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115108** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **161** | 150.0 | 0 | 107.3 | 167.3 | 3.88 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **52.6** | 50.00 | | 105.2 | | | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.2** | 50.00 | | 98.4 | | | 12/21/2015 |
| Surr: Toluene-d8 | | | **49.1** | 50.00 | | 98.2 | | | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115108** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 83.1 | 114 | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 78.5 | 119 | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 67.4 | 120 | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 75.4 | 121 | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 81.1 | 111 | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **122** | 125.0 | 0 | 97.8 | 55.4 | 131 | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **52.7** | 50.00 | 0 | 105.5 | 80.1 | 116 | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 73.1 | 121 | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 82.2 | 114 | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **57.2** | 50.00 | 0 | 114.4 | 81.7 | 130 | 12/21/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **49.8** | 50.00 | 0 | 99.5 | 67.8 | 118 | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 82.1 | 127 | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **58.1** | 50.00 | 0 | 116.3 | 72.3 | 141 | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **55.7** | 50.00 | 0 | 111.5 | 79.7 | 123 | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 62.1 | 123 | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 82.4 | 112 | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 82.7 | 119 | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 72.8 | 120 | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 80 | 116 | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **56.1** | 50.00 | 0 | 112.3 | 81.5 | 125 | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **55.0** | 50.00 | 0 | 109.9 | 82 | 124 | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 79.8 | 113 | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **55.0** | 50.00 | 0 | 110.0 | 81.1 | 124 | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 77.2 | 113 | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 76.6 | 121 | 12/21/2015 |
| 2-Butanone | 50.0 | | **161** | 125.0 | 0 | 128.4 | 62.8 | 131 | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 78.8 | 121 | 12/21/2015 |
| 2-Hexanone | 50.0 | | **152** | 125.0 | 0 | 121.4 | 63.1 | 125 | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **535** | 500.0 | 0 | 106.9 | 61.2 | 129 | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 77.6 | 124 | 12/21/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **128** | 125.0 | 0 | 102.3 | 60.6 | 126 | 12/21/2015 |
| Acetone | 50.0 | S | **205** | 125.0 | 0 | 164.3 | 39.5 | 159 | 12/21/2015 |
| Acetonitrile | 100 | | **531** | 500.0 | 0 | 106.2 | 64.8 | 123 | 12/21/2015 |
| Acrolein | 100 | | **484** | 500.0 | 0 | 96.9 | 1 | 167 | 12/21/2015 |
| Acrylonitrile | 10.0 | | **50.9** | 50.00 | 0 | 101.8 | 67 | 124 | 12/21/2015 |
| Allyl chloride | 5.0 | | **52.1** | 50.00 | 0 | 104.1 | 58.5 | 129 | 12/21/2015 |
| Benzene | 1.0 | | **53.6** | 50.00 | 0 | 107.2 | 80.8 | 117 | 12/21/2015 |
| Bromobenzene | 5.0 | | **51.1** | 50.00 | 0 | 102.1 | 79.6 | 117 | 12/21/2015 |
| Bromochloromethane | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 70.7 | 121 | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 80.7 | 121 | 12/21/2015 |
| Bromoform | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 79.8 | 118 | 12/21/2015 |
| Bromomethane | 10.0 | | **25.5** | 50.00 | 0 | 51.0 | 1 | 175 | 12/21/2015 |
| Carbon disulfide | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 62.8 | 123 | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **55.0** | 50.00 | 0 | 109.9 | 77.6 | 123 | 12/21/2015 |
| Chlorobenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 85.6 | 116 | 12/21/2015 |
| Chloroethane | 10.0 | | **44.0** | 50.00 | 0 | 88.0 | 60.2 | 125 | 12/21/2015 |
| Chloroform | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 77.9 | 116 | 12/21/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115108** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **37.6** | 50.00 | 0 | 75.3 | 29.9 | 157 | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 80.1 | 116 | 12/21/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **53.5** | 50.00 | 0 | 107.0 | 80.5 | 121 | 12/21/2015 |
| Cyclohexanone | 100 | | **517** | 500.0 | 0 | 103.4 | 45.4 | 128 | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 84.3 | 116 | 12/21/2015 |
| Dibromomethane | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 76.6 | 115 | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **27.4** | 50.00 | 0 | 54.8 | 1 | 200 | 12/21/2015 |
| Diisopropyl ether | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 73.6 | 119 | 12/21/2015 |
| Ethyl ether | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 73.4 | 116 | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 76.2 | 120 | 12/21/2015 |
| Ethylbenzene | 5.0 | | **56.0** | 50.00 | 0 | 112.1 | 84.8 | 116 | 12/21/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **51.5** | 50.00 | 0 | 103.1 | 73.8 | 119 | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **55.5** | 50.00 | 0 | 110.9 | 74 | 135 | 12/21/2015 |
| Hexachloroethane | 5.0 | | **55.0** | 50.00 | 0 | 109.9 | 76.4 | 121 | 12/21/2015 |
| Iodomethane | 10.0 | | **43.6** | 50.00 | 0 | 87.2 | 38.7 | 161 | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **55.7** | 50.00 | 0 | 111.5 | 85 | 125 | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **114** | 100.0 | 0 | 113.7 | 85.3 | 120 | 12/21/2015 |
| Methacrylonitrile | 50.0 | | **51.8** | 50.00 | 0 | 103.6 | 65.7 | 120 | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **52.0** | 50.00 | 0 | 103.9 | 69.1 | 114 | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **51.1** | 50.00 | 0 | 102.3 | 66.6 | 125 | 12/21/2015 |
| Methylacrylate | 10.0 | | **54.2** | 50.00 | 0 | 108.5 | 69.7 | 121 | 12/21/2015 |
| Methylene chloride | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 73.4 | 115 | 12/21/2015 |
| Naphthalene | 10.0 | | **52.2** | 50.00 | 0 | 104.5 | 70.1 | 134 | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **60.3** | 50.00 | 0 | 120.6 | 78.4 | 138 | 12/21/2015 |
| n-Heptane | 20.0 | | **59.2** | 50.00 | 0 | 118.4 | 74.3 | 125 | 12/21/2015 |
| n-Hexane | 20.0 | | **55.7** | 50.00 | 0 | 111.5 | 66.3 | 129 | 12/21/2015 |
| Nitrobenzene | 100 | | **514** | 500.0 | 0 | 102.9 | 20.1 | 165 | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 79.1 | 125 | 12/21/2015 |
| o-Xylene | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 81.9 | 118 | 12/21/2015 |
| Pentachloroethane | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 72.7 | 123 | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **58.6** | 50.00 | 0 | 117.1 | 82.7 | 129 | 12/21/2015 |
| Propionitrile | 50.0 | | **533** | 500.0 | 0 | 106.6 | 64.3 | 121 | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **56.3** | 50.00 | 0 | 112.6 | 81.3 | 125 | 12/21/2015 |
| Styrene | 5.0 | | **53.5** | 50.00 | 0 | 106.9 | 88.2 | 122 | 12/21/2015 |
| tert-Amyl methyl ether | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 74.5 | 120 | 12/21/2015 |
| tert-Butyl alcohol | 50.0 | | **255** | 250.0 | 0 | 102.2 | 51.3 | 129 | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 74.8 | 125 | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 84.2 | 122 | 12/21/2015 |
| Tetrahydrofuran | 50.0 | J | **49** | 50.00 | 0 | 98.3 | 61 | 118 | 12/21/2015 |
| Toluene | 5.0 | | **53.1** | 50.00 | 0 | 106.3 | 81.3 | 113 | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 78.2 | 118 | 12/21/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **53.9** | 50.00 | 0 | 107.8 | 81.7 | 124 | 12/21/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **52.7** | 50.00 | 0 | 105.5 | 63.9 | 117 | 12/21/2015 |
| Trichloroethene | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 81 | 123 | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 66.8 | 131 | 12/21/2015 |
| Vinyl acetate | 50.0 | | **55.4** | 50.00 | 0 | 110.9 | 64.3 | 122 | 12/21/2015 |
| Vinyl chloride | 2.0 | | **45.4** | 50.00 | 0 | 90.7 | 45.2 | 140 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115108 **SampType:** LCS Units **µg/Kg**

SampID: LCS-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **167** | 150.0 | 0 | 111.5 | 85.3 | 118 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **53.4** | 50.00 | | 106.8 | 72.2 | 131 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **48.5** | 50.00 | | 97.1 | 82.1 | 116 | 12/21/2015 |
| Surr: Toluene-d8 | | | **49.3** | 50.00 | | 98.7 | 86 | 116 | 12/21/2015 |

**Batch** 115108 **SampType:** LCSGD Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1990** | 2000 | 0 | 99.3 | 2060 | 3.63 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.9** | 50.00 | | 99.9 | | | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.6** | 50.00 | | 101.1 | | | 12/21/2015 |
| Surr: Toluene-d8 | | | **51.0** | 50.00 | | 102.0 | | | 12/21/2015 |

**Batch** 115108 **SampType:** LCSG Units **µg/Kg**

SampID: LCSG-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2060** | 2000 | 0 | 103.0 | 70 | 130 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.6** | 50.00 | | 99.2 | 72.2 | 131 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **53.8** | 50.00 | | 107.6 | 82.1 | 116 | 12/21/2015 |
| Surr: Toluene-d8 | | | **51.9** | 50.00 | | 103.8 | 86 | 116 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/22/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/22/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/22/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/22/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/22/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/22/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/22/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/22/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.8** | 50.00 | | 99.6 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **51.0** | 50.00 | | 101.9 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **48.6** | 50.00 | | 97.2 | 86 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 83.1 | 114 | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **55.9** | 50.00 | 0 | 111.7 | 78.5 | 119 | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 67.4 | 120 | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **56.6** | 50.00 | 0 | 113.1 | 75.4 | 121 | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 81.1 | 111 | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **118** | 125.0 | 0 | 94.5 | 55.4 | 131 | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 80.1 | 116 | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 73.1 | 121 | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **56.7** | 50.00 | 0 | 113.4 | 82.2 | 114 | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 81.7 | 130 | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **48.8** | 50.00 | 0 | 97.7 | 67.8 | 118 | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 82.1 | 127 | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **59.2** | 50.00 | 0 | 118.4 | 72.3 | 141 | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **56.0** | 50.00 | 0 | 112.0 | 79.7 | 123 | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **45.8** | 50.00 | 0 | 91.5 | 62.1 | 123 | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.3** | 50.00 | 0 | 96.5 | 82.4 | 112 | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 82.7 | 119 | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 72.8 | 120 | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **53.3** | 50.00 | 0 | 106.7 | 80 | 116 | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 81.5 | 125 | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 82 | 124 | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 79.8 | 113 | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 81.1 | 124 | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 77.2 | 113 | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **56.7** | 50.00 | 0 | 113.5 | 76.6 | 121 | 12/22/2015 |
| 2-Butanone | 50.0 | | **137** | 125.0 | 0 | 109.4 | 62.8 | 131 | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 78.8 | 121 | 12/22/2015 |
| 2-Hexanone | 50.0 | | **127** | 125.0 | 0 | 101.8 | 63.1 | 125 | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **575** | 500.0 | 0 | 114.9 | 61.2 | 129 | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **56.5** | 50.00 | 0 | 113.1 | 77.6 | 124 | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **121** | 125.0 | 0 | 97.1 | 60.6 | 126 | 12/22/2015 |
| Acetone | 50.0 | | **157** | 125.0 | 0 | 125.4 | 39.5 | 159 | 12/22/2015 |
| Acetonitrile | 100 | | **541** | 500.0 | 0 | 108.2 | 64.8 | 123 | 12/22/2015 |
| Acrolein | 100 | | **518** | 500.0 | 0 | 103.7 | 1 | 167 | 12/22/2015 |
| Acrylonitrile | 10.0 | | **46.6** | 50.00 | 0 | 93.3 | 67 | 124 | 12/22/2015 |
| Allyl chloride | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 58.5 | 129 | 12/22/2015 |
| Benzene | 1.0 | | **55.3** | 50.00 | 0 | 110.5 | 80.8 | 117 | 12/22/2015 |
| Bromobenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 79.6 | 117 | 12/22/2015 |
| Bromochloromethane | 5.0 | | **52.6** | 50.00 | 0 | 105.1 | 70.7 | 121 | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 80.7 | 121 | 12/22/2015 |
| Bromoform | 5.0 | | **55.3** | 50.00 | 0 | 110.5 | 79.8 | 118 | 12/22/2015 |
| Bromomethane | 10.0 | | **45.3** | 50.00 | 0 | 90.6 | 1 | 175 | 12/22/2015 |
| Carbon disulfide | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 62.8 | 123 | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **57.5** | 50.00 | 0 | 115.1 | 77.6 | 123 | 12/22/2015 |
| Chlorobenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 85.6 | 116 | 12/22/2015 |
| Chloroethane | 10.0 | | **51.4** | 50.00 | 0 | 102.9 | 60.2 | 125 | 12/22/2015 |
| Chloroform | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 77.9 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **38.0** | 50.00 | 0 | 75.9 | 29.9 | 157 | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 80.1 | 116 | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **55.0** | 50.00 | 0 | 110.1 | 80.5 | 121 | 12/22/2015 |
| Cyclohexanone | 100 | | **454** | 500.0 | 0 | 90.9 | 45.4 | 128 | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 84.3 | 116 | 12/22/2015 |
| Dibromomethane | 5.0 | | **53.1** | 50.00 | 0 | 106.1 | 76.6 | 115 | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **30.4** | 50.00 | 0 | 60.9 | 1 | 200 | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 73.6 | 119 | 12/22/2015 |
| Ethyl ether | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 73.4 | 116 | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 76.2 | 120 | 12/22/2015 |
| Ethylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 84.8 | 116 | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 73.8 | 119 | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **58.0** | 50.00 | 0 | 116.0 | 74 | 135 | 12/22/2015 |
| Hexachloroethane | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 76.4 | 121 | 12/22/2015 |
| Iodomethane | 10.0 | | **55.8** | 50.00 | 0 | 111.6 | 38.7 | 161 | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 85 | 125 | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **111** | 100.0 | 0 | 110.5 | 85.3 | 120 | 12/22/2015 |
| Methacrylonitrile | 50.0 | | **50.7** | 50.00 | 0 | 101.5 | 65.7 | 120 | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 69.1 | 114 | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **49.6** | 50.00 | 0 | 99.1 | 66.6 | 125 | 12/22/2015 |
| Methylacrylate | 10.0 | | **54.7** | 50.00 | 0 | 109.4 | 69.7 | 121 | 12/22/2015 |
| Methylene chloride | 5.0 | | **53.7** | 50.00 | 0 | 107.5 | 73.4 | 115 | 12/22/2015 |
| Naphthalene | 10.0 | | **50.6** | 50.00 | 0 | 101.3 | 70.1 | 134 | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **58.4** | 50.00 | 0 | 116.9 | 78.4 | 138 | 12/22/2015 |
| n-Heptane | 20.0 | | **57.8** | 50.00 | 0 | 115.6 | 74.3 | 125 | 12/22/2015 |
| n-Hexane | 20.0 | | **57.5** | 50.00 | 0 | 114.9 | 66.3 | 129 | 12/22/2015 |
| Nitrobenzene | 100 | | **488** | 500.0 | 0 | 97.6 | 20.1 | 165 | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **56.5** | 50.00 | 0 | 112.9 | 79.1 | 125 | 12/22/2015 |
| o-Xylene | 5.0 | | **54.6** | 50.00 | 0 | 109.3 | 81.9 | 118 | 12/22/2015 |
| Pentachloroethane | 5.0 | | **57.4** | 50.00 | 0 | 114.9 | 72.7 | 123 | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 82.7 | 129 | 12/22/2015 |
| Propionitrile | 50.0 | | **533** | 500.0 | 0 | 106.5 | 64.3 | 121 | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 81.3 | 125 | 12/22/2015 |
| Styrene | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 88.2 | 122 | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 74.5 | 120 | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **260** | 250.0 | 0 | 103.9 | 51.3 | 129 | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 74.8 | 125 | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 84.2 | 122 | 12/22/2015 |
| Tetrahydrofuran | 50.0 | | **50.8** | 50.00 | 0 | 101.6 | 61 | 118 | 12/22/2015 |
| Toluene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 81.3 | 113 | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.6** | 50.00 | 0 | 109.1 | 78.2 | 118 | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.6** | 50.00 | 0 | 105.3 | 81.7 | 124 | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 63.9 | 117 | 12/22/2015 |
| Trichloroethene | 5.0 | | **56.6** | 50.00 | 0 | 113.2 | 81 | 123 | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 66.8 | 131 | 12/22/2015 |
| Vinyl acetate | 50.0 | | **53.9** | 50.00 | 0 | 107.8 | 64.3 | 122 | 12/22/2015 |
| Vinyl chloride | 2.0 | | **46.1** | 50.00 | 0 | 92.2 | 45.2 | 140 | 12/22/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **165** | 150.0 | 0 | 110.1 | 85.3 | 118 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.3** | 50.00 | | 98.6 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.2** | 50.00 | | 100.5 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **46.8** | 50.00 | | 93.5 | 86 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 51.62 | 3.55 | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 55.86 | 5.37 | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.6** | 50.00 | 0 | 97.1 | 48.91 | 0.70 | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 56.55 | 6.63 | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 49.38 | 0.81 | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **124** | 125.0 | 0 | 99.1 | 118.1 | 4.77 | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 53.62 | 5.17 | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **50.9** | 50.00 | 0 | 101.7 | 53.76 | 5.54 | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 56.69 | 6.01 | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 55.80 | 3.06 | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **48.4** | 50.00 | 0 | 96.9 | 48.83 | 0.82 | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 50.32 | 3.17 | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 59.22 | 5.43 | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 55.99 | 4.70 | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 45.75 | 2.89 | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 48.27 | 0.06 | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 54.21 | 4.89 | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 53.10 | 2.04 | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 53.34 | 2.20 | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 53.45 | 5.24 | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 55.80 | 4.70 | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.2** | 50.00 | 0 | 98.5 | 49.75 | 1.05 | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 56.10 | 4.78 | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **52.2** | 50.00 | 0 | 104.5 | 54.62 | 4.44 | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 56.74 | 6.08 | 12/22/2015 |
| 2-Butanone | 50.0 | | **122** | 125.0 | 0 | 97.6 | 136.8 | 11.38 | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 55.30 | 5.58 | 12/22/2015 |
| 2-Hexanone | 50.0 | | **114** | 125.0 | 0 | 91.5 | 127.3 | 10.73 | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **592** | 500.0 | 0 | 118.4 | 574.6 | 3.02 | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **52.7** | 50.00 | 0 | 105.5 | 56.54 | 6.97 | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **124** | 125.0 | 0 | 99.4 | 121.3 | 2.33 | 12/22/2015 |
| Acetone | 50.0 | | **121** | 125.0 | 0 | 96.6 | 156.7 | 25.95 | 12/22/2015 |
| Acetonitrile | 100 | | **554** | 500.0 | 0 | 110.9 | 541.0 | 2.43 | 12/22/2015 |
| Acrolein | 100 | | **496** | 500.0 | 0 | 99.2 | 518.4 | 4.45 | 12/22/2015 |
| Acrylonitrile | 10.0 | | **50.7** | 50.00 | 0 | 101.3 | 46.63 | 8.30 | 12/22/2015 |
| Allyl chloride | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 52.38 | 3.18 | 12/22/2015 |
| Benzene | 1.0 | | **53.2** | 50.00 | 0 | 106.4 | 55.27 | 3.78 | 12/22/2015 |
| Bromobenzene | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 50.92 | 4.09 | 12/22/2015 |
| Bromochloromethane | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 52.56 | 1.75 | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 53.68 | 2.55 | 12/22/2015 |
| Bromoform | 5.0 | | **54.8** | 50.00 | 0 | 109.6 | 55.26 | 0.82 | 12/22/2015 |
| Bromomethane | 10.0 | | **43.7** | 50.00 | 0 | 87.4 | 45.31 | 3.62 | 12/22/2015 |
| Carbon disulfide | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 51.99 | 5.82 | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 57.54 | 5.59 | 12/22/2015 |
| Chlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 54.16 | 3.17 | 12/22/2015 |
| Chloroethane | 10.0 | | **48.4** | 50.00 | 0 | 96.7 | 51.45 | 6.19 | 12/22/2015 |
| Chloroform | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 54.41 | 4.28 | 12/22/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **36.1** | 50.00 | 0 | 72.1 | 37.96 | 5.11 | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 54.28 | 4.46 | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **53.7** | 50.00 | 0 | 107.4 | 55.03 | 2.47 | 12/22/2015 |
| Cyclohexanone | 100 | | **476** | 500.0 | 0 | 95.2 | 454.4 | 4.70 | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 52.09 | 0.83 | 12/22/2015 |
| Dibromomethane | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 53.06 | 1.63 | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **28.0** | 50.00 | 0 | 56.0 | 30.43 | 8.35 | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 49.63 | 2.67 | 12/22/2015 |
| Ethyl ether | 5.0 | | **48.2** | 50.00 | 0 | 96.3 | 48.99 | 1.73 | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 50.41 | 0.55 | 12/22/2015 |
| Ethylbenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 51.80 | 4.14 | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 50.41 | 2.23 | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 58.02 | 6.64 | 12/22/2015 |
| Hexachloroethane | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 53.26 | 4.34 | 12/22/2015 |
| Iodomethane | 10.0 | | **52.8** | 50.00 | 0 | 105.6 | 55.79 | 5.49 | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 52.77 | 4.44 | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **106** | 100.0 | 0 | 106.0 | 110.5 | 4.18 | 12/22/2015 |
| Methacrylonitrile | 50.0 | | **51.4** | 50.00 | 0 | 102.7 | 50.74 | 1.20 | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 52.15 | 1.43 | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **49.3** | 50.00 | 0 | 98.6 | 49.55 | 0.55 | 12/22/2015 |
| Methylacrylate | 10.0 | | **55.7** | 50.00 | 0 | 111.4 | 54.72 | 1.78 | 12/22/2015 |
| Methylene chloride | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 53.74 | 4.84 | 12/22/2015 |
| Naphthalene | 10.0 | | **50.1** | 50.00 | 0 | 100.2 | 50.63 | 1.05 | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **55.1** | 50.00 | 0 | 110.1 | 58.45 | 5.95 | 12/22/2015 |
| n-Heptane | 20.0 | | **54.3** | 50.00 | 0 | 108.7 | 57.78 | 6.14 | 12/22/2015 |
| n-Hexane | 20.0 | | **53.6** | 50.00 | 0 | 107.2 | 57.47 | 7.01 | 12/22/2015 |
| Nitrobenzene | 100 | | **497** | 500.0 | 0 | 99.4 | 487.8 | 1.89 | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 56.46 | 5.81 | 12/22/2015 |
| o-Xylene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 54.65 | 3.29 | 12/22/2015 |
| Pentachloroethane | 5.0 | | **55.7** | 50.00 | 0 | 111.3 | 57.44 | 3.13 | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 54.38 | 5.11 | 12/22/2015 |
| Propionitrile | 50.0 | | **553** | 500.0 | 0 | 110.6 | 532.6 | 3.78 | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 53.32 | 4.90 | 12/22/2015 |
| Styrene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 55.60 | 2.88 | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 50.91 | 1.27 | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **275** | 250.0 | 0 | 110.0 | 259.6 | 5.73 | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **51.3** | 50.00 | 0 | 102.5 | 54.60 | 6.29 | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **46.0** | 50.00 | 0 | 92.0 | 49.30 | 6.90 | 12/22/2015 |
| Tetrahydrofuran | 50.0 | | **51.6** | 50.00 | 0 | 103.2 | 50.79 | 1.54 | 12/22/2015 |
| Toluene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 51.90 | 2.77 | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 54.55 | 4.56 | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.2** | 50.00 | 0 | 104.3 | 52.64 | 0.94 | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 50.09 | 0.32 | 12/22/2015 |
| Trichloroethene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 56.60 | 4.11 | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 53.69 | 6.74 | 12/22/2015 |
| Vinyl acetate | 50.0 | | **55.7** | 50.00 | 0 | 111.5 | 53.91 | 3.32 | 12/22/2015 |
| Vinyl chloride | 2.0 | | **43.0** | 50.00 | 0 | 86.1 | 46.11 | 6.91 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115156** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **159** | 150.0 | 0 | 105.9 | 165.2 | 3.88 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.4** | 50.00 | | 98.8 | | | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.9** | 50.00 | | 99.9 | | | 12/22/2015 |
| Surr: Toluene-d8 | | | **47.4** | 50.00 | | 94.8 | | | 12/22/2015 |

**Batch 115156** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1850** | 2000 | 0 | 92.5 | 70 | 130 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.2** | 50.00 | | 98.4 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **51.9** | 50.00 | | 103.8 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **49.3** | 50.00 | | 98.6 | 86 | 116 | 12/22/2015 |

**Batch 115156** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1910** | 2000 | 0 | 95.4 | 1850 | 3.12 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.6** | 50.00 | | 99.2 | | | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.5** | 50.00 | | 101.0 | | | 12/22/2015 |
| Surr: Toluene-d8 | | | **49.1** | 50.00 | | 98.2 | | | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/23/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/23/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/23/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/23/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/23/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/23/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/23/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/23/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/23/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/23/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/23/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/23/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/23/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/23/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.7** | 50.00 | | 101.5 | 72.2 | 131 | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.0** | 50.00 | | 98.0 | 82.1 | 116 | 12/23/2015 |
| Surr: Toluene-d8 | | | **48.0** | 50.00 | | 96.1 | 86 | 116 | 12/23/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121421

**Client Project:** NGA 2015-0461.21

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 83.1 | 114 | 12/23/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 78.5 | 119 | 12/23/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **45.0** | 50.00 | 0 | 90.1 | 67.4 | 120 | 12/23/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 75.4 | 121 | 12/23/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **46.3** | 50.00 | 0 | 92.6 | 81.1 | 111 | 12/23/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **112** | 125.0 | 0 | 89.9 | 55.4 | 131 | 12/23/2015 |
| 1,1-Dichloroethane | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 80.1 | 116 | 12/23/2015 |
| 1,1-Dichloroethene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 73.1 | 121 | 12/23/2015 |
| 1,1-Dichloropropene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 82.2 | 114 | 12/23/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 81.7 | 130 | 12/23/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **45.4** | 50.00 | 0 | 90.7 | 67.8 | 118 | 12/23/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **46.2** | 50.00 | 0 | 92.3 | 82.1 | 127 | 12/23/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 72.3 | 141 | 12/23/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 79.7 | 123 | 12/23/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **43.7** | 50.00 | 0 | 87.4 | 62.1 | 123 | 12/23/2015 |
| 1,2-Dibromoethane | 5.0 | | **44.8** | 50.00 | 0 | 89.7 | 82.4 | 112 | 12/23/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 82.7 | 119 | 12/23/2015 |
| 1,2-Dichloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.7 | 72.8 | 120 | 12/23/2015 |
| 1,2-Dichloropropane | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 80 | 116 | 12/23/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 81.5 | 125 | 12/23/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 82 | 124 | 12/23/2015 |
| 1,3-Dichloropropane | 5.0 | | **45.9** | 50.00 | 0 | 91.8 | 79.8 | 113 | 12/23/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.3 | 81.1 | 124 | 12/23/2015 |
| 1-Chlorobutane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 77.2 | 113 | 12/23/2015 |
| 2,2-Dichloropropane | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 76.6 | 121 | 12/23/2015 |
| 2-Butanone | 50.0 | | **133** | 125.0 | 0 | 106.2 | 62.8 | 131 | 12/23/2015 |
| 2-Chlorotoluene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 78.8 | 121 | 12/23/2015 |
| 2-Hexanone | 50.0 | | **127** | 125.0 | 0 | 101.3 | 63.1 | 125 | 12/23/2015 |
| 2-Nitropropane | 50.0 | | **547** | 500.0 | 0 | 109.5 | 61.2 | 129 | 12/23/2015 |
| 4-Chlorotoluene | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 77.6 | 124 | 12/23/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **114** | 125.0 | 0 | 91.6 | 60.6 | 126 | 12/23/2015 |
| Acetone | 50.0 | | **155** | 125.0 | 0 | 124.3 | 39.5 | 159 | 12/23/2015 |
| Acetonitrile | 100 | | **518** | 500.0 | 0 | 103.5 | 64.8 | 123 | 12/23/2015 |
| Acrolein | 100 | | **557** | 500.0 | 0 | 111.3 | 1 | 167 | 12/23/2015 |
| Acrylonitrile | 10.0 | | **48.1** | 50.00 | 0 | 96.2 | 67 | 124 | 12/23/2015 |
| Allyl chloride | 5.0 | | **47.9** | 50.00 | 0 | 95.7 | 58.5 | 129 | 12/23/2015 |
| Benzene | 1.0 | | **51.5** | 50.00 | 0 | 102.9 | 80.8 | 117 | 12/23/2015 |
| Bromobenzene | 5.0 | | **47.0** | 50.00 | 0 | 94.0 | 79.6 | 117 | 12/23/2015 |
| Bromochloromethane | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 70.7 | 121 | 12/23/2015 |
| Bromodichloromethane | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 80.7 | 121 | 12/23/2015 |
| Bromoform | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 79.8 | 118 | 12/23/2015 |
| Bromomethane | 10.0 | | **45.8** | 50.00 | 0 | 91.6 | 1 | 175 | 12/23/2015 |
| Carbon disulfide | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 62.8 | 123 | 12/23/2015 |
| Carbon tetrachloride | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 77.6 | 123 | 12/23/2015 |
| Chlorobenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.9 | 85.6 | 116 | 12/23/2015 |
| Chloroethane | 10.0 | | **45.6** | 50.00 | 0 | 91.2 | 60.2 | 125 | 12/23/2015 |
| Chloroform | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 77.9 | 116 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **34.0** | 50.00 | 0 | 67.9 | 29.9 | 157 | 12/23/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **51.0** | 50.00 | 0 | 102.1 | 80.1 | 116 | 12/23/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **51.6** | 50.00 | 0 | 103.2 | 80.5 | 121 | 12/23/2015 |
| Cyclohexanone | 100 | | **440** | 500.0 | 0 | 88.0 | 45.4 | 128 | 12/23/2015 |
| Dibromochloromethane | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 84.3 | 116 | 12/23/2015 |
| Dibromomethane | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 76.6 | 115 | 12/23/2015 |
| Dichlorodifluoromethane | 10.0 | | **23.5** | 50.00 | 0 | 47.0 | 1 | 200 | 12/23/2015 |
| Diisopropyl ether | 5.0 | | **46.8** | 50.00 | 0 | 93.5 | 73.6 | 119 | 12/23/2015 |
| Ethyl ether | 5.0 | | **45.6** | 50.00 | 0 | 91.2 | 73.4 | 116 | 12/23/2015 |
| Ethyl methacrylate | 5.0 | | **46.7** | 50.00 | 0 | 93.3 | 76.2 | 120 | 12/23/2015 |
| Ethylbenzene | 5.0 | | **48.6** | 50.00 | 0 | 97.3 | 84.8 | 116 | 12/23/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 73.8 | 119 | 12/23/2015 |
| Hexachlorobutadiene | 5.0 | | **50.9** | 50.00 | 0 | 101.9 | 74 | 135 | 12/23/2015 |
| Hexachloroethane | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 76.4 | 121 | 12/23/2015 |
| Iodomethane | 10.0 | | **51.7** | 50.00 | 0 | 103.4 | 38.7 | 161 | 12/23/2015 |
| Isopropylbenzene | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 85 | 125 | 12/23/2015 |
| m,p-Xylenes | 5.0 | | **103** | 100.0 | 0 | 103.0 | 85.3 | 120 | 12/23/2015 |
| Methacrylonitrile | 50.0 | J | **48** | 50.00 | 0 | 95.4 | 65.7 | 120 | 12/23/2015 |
| Methyl Methacrylate | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 69.1 | 114 | 12/23/2015 |
| Methyl tert-butyl ether | 2.0 | | **46.3** | 50.00 | 0 | 92.6 | 66.6 | 125 | 12/23/2015 |
| Methylacrylate | 10.0 | | **50.1** | 50.00 | 0 | 100.2 | 69.7 | 121 | 12/23/2015 |
| Methylene chloride | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 73.4 | 115 | 12/23/2015 |
| Naphthalene | 10.0 | | **45.2** | 50.00 | 0 | 90.5 | 70.1 | 134 | 12/23/2015 |
| n-Butylbenzene | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 78.4 | 138 | 12/23/2015 |
| n-Heptane | 20.0 | | **54.5** | 50.00 | 0 | 109.1 | 74.3 | 125 | 12/23/2015 |
| n-Hexane | 20.0 | | **52.3** | 50.00 | 0 | 104.6 | 66.3 | 129 | 12/23/2015 |
| Nitrobenzene | 100 | | **422** | 500.0 | 0 | 84.4 | 20.1 | 165 | 12/23/2015 |
| n-Propylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 79.1 | 125 | 12/23/2015 |
| o-Xylene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 81.9 | 118 | 12/23/2015 |
| Pentachloroethane | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 72.7 | 123 | 12/23/2015 |
| p-Isopropyltoluene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 82.7 | 129 | 12/23/2015 |
| Propionitrile | 50.0 | | **510** | 500.0 | 0 | 102.0 | 64.3 | 121 | 12/23/2015 |
| sec-Butylbenzene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 81.3 | 125 | 12/23/2015 |
| Styrene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 88.2 | 122 | 12/23/2015 |
| tert-Amyl methyl ether | 5.0 | | **47.8** | 50.00 | 0 | 95.5 | 74.5 | 120 | 12/23/2015 |
| tert-Butyl alcohol | 50.0 | | **249** | 250.0 | 0 | 99.6 | 51.3 | 129 | 12/23/2015 |
| tert-Butylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 74.8 | 125 | 12/23/2015 |
| Tetrachloroethene | 5.0 | | **47.4** | 50.00 | 0 | 94.7 | 84.2 | 122 | 12/23/2015 |
| Tetrahydrofuran | 50.0 | J | **48** | 50.00 | 0 | 95.1 | 61 | 118 | 12/23/2015 |
| Toluene | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 81.3 | 113 | 12/23/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **51.3** | 50.00 | 0 | 102.5 | 78.2 | 118 | 12/23/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **48.5** | 50.00 | 0 | 97.0 | 81.7 | 124 | 12/23/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 63.9 | 117 | 12/23/2015 |
| Trichloroethene | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 81 | 123 | 12/23/2015 |
| Trichlorofluoromethane | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 66.8 | 131 | 12/23/2015 |
| Vinyl acetate | 50.0 | | **51.1** | 50.00 | 0 | 102.1 | 64.3 | 122 | 12/23/2015 |
| Vinyl chloride | 2.0 | | **42.2** | 50.00 | 0 | 84.3 | 45.2 | 140 | 12/23/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **154** | 150.0 | 0 | 102.7 | 85.3 | 118 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.0** | 50.00 | | 98.1 | 72.2 | 131 | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.3 | 82.1 | 116 | 12/23/2015 |
| Surr: Toluene-d8 | | | **47.1** | 50.00 | | 94.2 | 86 | 116 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 47.91 | 5.48 | 12/23/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **55.3** | 50.00 | 0 | 110.5 | 52.51 | 5.12 | 12/23/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 45.05 | 6.38 | 12/23/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 51.25 | 4.28 | 12/23/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 46.31 | 7.86 | 12/23/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **122** | 125.0 | 0 | 97.8 | 112.3 | 8.51 | 12/23/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 50.00 | 7.10 | 12/23/2015 |
| 1,1-Dichloroethene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 50.08 | 6.27 | 12/23/2015 |
| 1,1-Dichloropropene | 5.0 | | **55.0** | 50.00 | 0 | 110.0 | 52.47 | 4.73 | 12/23/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 49.69 | 7.25 | 12/23/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **48.3** | 50.00 | 0 | 96.6 | 45.36 | 6.26 | 12/23/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 46.17 | 4.94 | 12/23/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **55.1** | 50.00 | 0 | 110.3 | 52.13 | 5.59 | 12/23/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 51.36 | 2.67 | 12/23/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 43.70 | 8.08 | 12/23/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 44.85 | 7.16 | 12/23/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.1 | 48.75 | 5.56 | 12/23/2015 |
| 1,2-Dichloroethane | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 50.34 | 6.76 | 12/23/2015 |
| 1,2-Dichloropropane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 50.26 | 6.58 | 12/23/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 49.53 | 2.33 | 12/23/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 51.57 | 1.71 | 12/23/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 45.88 | 7.59 | 12/23/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 50.66 | 3.55 | 12/23/2015 |
| 1-Chlorobutane | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 51.61 | 4.30 | 12/23/2015 |
| 2,2-Dichloropropane | 5.0 | | **56.8** | 50.00 | 0 | 113.6 | 52.78 | 7.30 | 12/23/2015 |
| 2-Butanone | 50.0 | | **141** | 125.0 | 0 | 113.1 | 132.8 | 6.27 | 12/23/2015 |
| 2-Chlorotoluene | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 50.30 | 2.75 | 12/23/2015 |
| 2-Hexanone | 50.0 | | **129** | 125.0 | 0 | 103.1 | 126.6 | 1.79 | 12/23/2015 |
| 2-Nitropropane | 50.0 | | **611** | 500.0 | 0 | 122.2 | 547.3 | 11.01 | 12/23/2015 |
| 4-Chlorotoluene | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 51.18 | 2.89 | 12/23/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **124** | 125.0 | 0 | 99.1 | 114.5 | 7.84 | 12/23/2015 |
| Acetone | 50.0 | | **156** | 125.0 | 0 | 125.1 | 155.3 | 0.67 | 12/23/2015 |
| Acetonitrile | 100 | | **578** | 500.0 | 0 | 115.7 | 517.7 | 11.06 | 12/23/2015 |
| Acrolein | 100 | | **538** | 500.0 | 0 | 107.6 | 556.7 | 3.46 | 12/23/2015 |
| Acrylonitrile | 10.0 | | **54.0** | 50.00 | 0 | 108.0 | 48.11 | 11.54 | 12/23/2015 |
| Allyl chloride | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 47.87 | 5.78 | 12/23/2015 |
| Benzene | 1.0 | | **54.8** | 50.00 | 0 | 109.6 | 51.46 | 6.27 | 12/23/2015 |
| Bromobenzene | 5.0 | | **48.5** | 50.00 | 0 | 96.9 | 47.02 | 3.02 | 12/23/2015 |
| Bromochloromethane | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 50.24 | 7.68 | 12/23/2015 |
| Bromodichloromethane | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 50.57 | 6.95 | 12/23/2015 |
| Bromoform | 5.0 | | **55.5** | 50.00 | 0 | 110.9 | 51.18 | 8.03 | 12/23/2015 |
| Bromomethane | 10.0 | | **48.1** | 50.00 | 0 | 96.2 | 45.79 | 4.94 | 12/23/2015 |
| Carbon disulfide | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 47.48 | 4.79 | 12/23/2015 |
| Carbon tetrachloride | 5.0 | | **56.9** | 50.00 | 0 | 113.7 | 53.05 | 6.93 | 12/23/2015 |
| Chlorobenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 50.43 | 3.91 | 12/23/2015 |
| Chloroethane | 10.0 | | **48.9** | 50.00 | 0 | 97.8 | 45.60 | 6.96 | 12/23/2015 |
| Chloroform | 5.0 | | **54.1** | 50.00 | 0 | 108.3 | 50.91 | 6.13 | 12/23/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **36.8** | 50.00 | 0 | 73.6 | 33.97 | 8.02 | 12/23/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 51.05 | 6.06 | 12/23/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **55.7** | 50.00 | 0 | 111.3 | 51.61 | 7.55 | 12/23/2015 |
| Cyclohexanone | 100 | | **479** | 500.0 | 0 | 95.8 | 440.0 | 8.49 | 12/23/2015 |
| Dibromochloromethane | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 47.79 | 7.78 | 12/23/2015 |
| Dibromomethane | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 49.04 | 8.94 | 12/23/2015 |
| Dichlorodifluoromethane | 10.0 | | **23.8** | 50.00 | 0 | 47.7 | 23.50 | 1.44 | 12/23/2015 |
| Diisopropyl ether | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 46.77 | 7.09 | 12/23/2015 |
| Ethyl ether | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 45.58 | 7.29 | 12/23/2015 |
| Ethyl methacrylate | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 46.67 | 8.00 | 12/23/2015 |
| Ethylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 48.65 | 4.11 | 12/23/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 47.09 | 7.87 | 12/23/2015 |
| Hexachlorobutadiene | 5.0 | | **54.1** | 50.00 | 0 | 108.3 | 50.94 | 6.07 | 12/23/2015 |
| Hexachloroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 49.58 | 3.16 | 12/23/2015 |
| Iodomethane | 10.0 | | **54.6** | 50.00 | 0 | 109.1 | 51.68 | 5.40 | 12/23/2015 |
| Isopropylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 49.49 | 5.25 | 12/23/2015 |
| m,p-Xylenes | 5.0 | | **109** | 100.0 | 0 | 109.0 | 103.0 | 5.60 | 12/23/2015 |
| Methacrylonitrile | 50.0 | | **53.2** | 50.00 | 0 | 106.3 | 47.72 | 10.80 | 12/23/2015 |
| Methyl Methacrylate | 5.0 | | **54.1** | 50.00 | 0 | 108.1 | 49.42 | 8.99 | 12/23/2015 |
| Methyl tert-butyl ether | 2.0 | | **50.5** | 50.00 | 0 | 101.0 | 46.29 | 8.72 | 12/23/2015 |
| Methylacrylate | 10.0 | | **56.8** | 50.00 | 0 | 113.6 | 50.11 | 12.55 | 12/23/2015 |
| Methylene chloride | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 50.59 | 7.83 | 12/23/2015 |
| Naphthalene | 10.0 | | **49.7** | 50.00 | 0 | 99.4 | 45.25 | 9.33 | 12/23/2015 |
| n-Butylbenzene | 5.0 | | **54.7** | 50.00 | 0 | 109.3 | 53.81 | 1.57 | 12/23/2015 |
| n-Heptane | 20.0 | | **55.0** | 50.00 | 0 | 110.0 | 54.54 | 0.82 | 12/23/2015 |
| n-Hexane | 20.0 | | **53.5** | 50.00 | 0 | 107.0 | 52.30 | 2.29 | 12/23/2015 |
| Nitrobenzene | 100 | | **485** | 500.0 | 0 | 97.0 | 422.0 | 13.88 | 12/23/2015 |
| n-Propylbenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 51.44 | 2.61 | 12/23/2015 |
| o-Xylene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 51.00 | 5.73 | 12/23/2015 |
| Pentachloroethane | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 50.98 | 5.61 | 12/23/2015 |
| p-Isopropyltoluene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 50.72 | 2.09 | 12/23/2015 |
| Propionitrile | 50.0 | | **571** | 500.0 | 0 | 114.2 | 509.9 | 11.27 | 12/23/2015 |
| sec-Butylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 49.38 | 3.95 | 12/23/2015 |
| Styrene | 5.0 | | **55.1** | 50.00 | 0 | 110.3 | 51.79 | 6.25 | 12/23/2015 |
| tert-Amyl methyl ether | 5.0 | | **51.9** | 50.00 | 0 | 103.7 | 47.75 | 8.25 | 12/23/2015 |
| tert-Butyl alcohol | 50.0 | | **284** | 250.0 | 0 | 113.7 | 249.0 | 13.21 | 12/23/2015 |
| tert-Butylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 50.74 | 2.74 | 12/23/2015 |
| Tetrachloroethene | 5.0 | | **46.4** | 50.00 | 0 | 92.8 | 47.35 | 2.01 | 12/23/2015 |
| Tetrahydrofuran | 50.0 | | **54.0** | 50.00 | 0 | 108.1 | 47.55 | 12.78 | 12/23/2015 |
| Toluene | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 48.39 | 4.92 | 12/23/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 51.27 | 5.22 | 12/23/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.0** | 50.00 | 0 | 104.1 | 48.48 | 7.10 | 12/23/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 46.82 | 3.87 | 12/23/2015 |
| Trichloroethene | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 53.08 | 4.42 | 12/23/2015 |
| Trichlorofluoromethane | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 48.30 | 6.95 | 12/23/2015 |
| Vinyl acetate | 50.0 | | **58.4** | 50.00 | 0 | 116.7 | 51.07 | 13.34 | 12/23/2015 |
| Vinyl chloride | 2.0 | | **44.7** | 50.00 | 0 | 89.5 | 42.16 | 5.92 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115190** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **163** | 150.0 | 0 | 108.7 | 154.0 | 5.65 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.6** | 50.00 | | 101.1 | | | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.9** | 50.00 | | 99.8 | | | 12/23/2015 |
| Surr: Toluene-d8 | | | **47.2** | 50.00 | | 94.3 | | | 12/23/2015 |

**Batch 115190** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1840** | 2000 | 0 | 91.9 | 70 | 130 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.5** | 50.00 | | 100.9 | 72.2 | 131 | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.8** | 50.00 | | 99.6 | 82.1 | 116 | 12/23/2015 |
| Surr: Toluene-d8 | | | **48.7** | 50.00 | | 97.4 | 86 | 116 | 12/23/2015 |

**Batch 115190** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1730** | 2000 | 0 | 86.6 | 1839 | 5.99 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.7** | 50.00 | | 101.5 | | | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.5** | 50.00 | | 99.1 | | | 12/23/2015 |
| Surr: Toluene-d8 | | | **48.3** | 50.00 | | 96.6 | | | 12/23/2015 |

# Receiving Check List

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

**Carrier:** Matt Wood

**Received By:** MLD

**Completed by:** Emily Pohlman
**On:** 18-Dec-15

**Reviewed by:** Elizabeth A. Hurley
**On:** 18-Dec-15

**Pages to follow:** Chain of custody 2 Extra pages included 0

| | | | | |
|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ | Temp °C 5.22 |
| Type of thermal preservation? | None ☐ | Ice ☑ | Blue Ice ☐ | Dry Ice ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | | |
| Chain of custody agrees with sample labels? | Yes ☐ | No ☑ | | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | | |
| Sample containers intact? | Yes ☑ | No ☐ | | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | | |
| All samples received within holding time? | Yes ☑ | No ☐ | | |
| Reported field parameters measured: | Field ☐ | Lab ☐ | NA ☑ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | | |

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

| | | | |
|---|---|---|---|
| Water – at least one vial per sample has zero headspace? | Yes ☑ | No ☐ | No VOA vials ☐ |
| Water - TOX containers have zero headspace? | Yes ☐ | No ☐ | No TOX containers ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | NA ☐ |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes ☐ | No ☐ | NA ☑ |

**Any No responses must be detailed below or on the COC.**

TB-02 was received but not listed on the chain of custody. MAK 12/18/15

Trip Blank collection dates and times will be reported as the received date and time (end of trip).

# CHAIN OF CUSTODY

pg. 1 of 2 Work order # 1512142

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

Samples on: ☑ ICE ☐ BLUE ICE ☐ NO ICE 5.22 °C
Preserved in: ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
Lab Notes
Headspace 12/18/15

Client Comments:
Meet MRBCA DTLs

**Courier**

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1512142-001 | EB-1 | 12/18/15 8:05am | 2 | | | | | | | 2 | | X | | | | | | | | X |
| -002 | TB-1 | 8:00am | | | | | | | | 2 | | X | | | | | | | | X |
| -003 | SCI-10A (0-3) | 8:45am | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| -004 | SCI-10B (12-16) | 8:45am | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| -005 | SCI-11A ~~(16-20)~~ (0-3) | 10:15am ~~9:30am~~ | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| -006 | SCI-11B (16-20) | 10:15am ~~9:30am~~ | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| -007 | SCI-12A ~~(12-16)~~ (0-3) | ~~9:30~~ 10:15am | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| -008 | SCI-12B (12-16) | 9:30am ~~10:15am~~ | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| -009 | SCI-13A (0-3) | 11:25am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| -010 | SCI-13B (16-20) | 11:25am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 12/18/2015 4:18 pm | [illegible] | 12/18/15 4:18 |
| [illegible] | 12/18/15 5:18 pm | Marvin L. Darling II | 12/18/15 17:18 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

# CHAIN OF CUSTODY

pg. 2 of 2 Work order # 1512421

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**
* Not on COC.

**Client Comments:**
Meet MRBCA DTLs

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1512421-011 | SCI-13D (16-20) | 12/18/15 11:25am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 012 | SCI-14A (0-3) | 12:00pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 013 | SCI-14B (16-20) | 12:00pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 014 | SCI-15A (0-3) | 2:00pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 015 | SCI-15B (12-16) | 2:00pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 016 | SCI-16A (0-3) | 1:15pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 017 | SCI-16B (16-20) | 1:15pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 018 | SCI-17A (0-3) | 3:00pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 019 | SCI-17B (16-20) | 3:00pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 020 | TB-02 | | | | | | | | | | | | | | | | | | | |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 12/18/2015 4:18pm | [illegible] | 12/18/15 4:18 |
| [illegible] | 12/18/15 5:18 | Marvin L. Darling II | 12/18/15 17:18 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

December 28, 2015

Ben Butterfield
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301
TEL: (618) 206-3028
FAX: (636) 949-8269

**RE:** NGA 2015-0461.21 **WorkOrder:** 15121500

Dear Ben Butterfield:

TEKLAB, INC received 24 samples on 12/21/2015 4:35:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

# Report Contents

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

**This reporting package includes the following:**


| | |
|---|---|
| Cover Letter | 1 |
| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 4 |
| Laboratory Results | 5 |
| Quality Control Results | 77 |
| Receiving Check List | 130 |
| Chain of Custody | Appended |

# Definitions

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

| Abbr | Definition |
|---|---|
| CCV | Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration. |
| DF | Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors. |
| DNI | Did not ignite |
| DUP | Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. |
| ICV | Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated. |
| IDPH | IL Dept. of Public Health |
| LCS | Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request). |
| LCSD | Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MBLK | Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses. |
| MDL | Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. |
| MS | Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MSD | Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MW | Molecular weight |
| ND | Not Detected at the Reporting Limit |
| NELAP | NELAP Accredited |
| PQL | Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request). |
| RL | The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL. |
| RPD | Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request). |
| SPK | The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. |
| Surr | Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. |
| TIC | Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET" |
| TNTC | Too numerous to count ( > 200 CFU ) |

## Qualifiers

| | | | |
|---|---|---|---|
| # - | Unknown hydrocarbon | B - | Analyte detected in associated Method Blank |
| E - | Value above quantitation range | H - | Holding times exceeded |
| I - | Associated internal standard was outside method criteria | J - | Analyte detected below quantitation limits |
| M - | Manual Integration used to determine area response | ND - | Not Detected at the Reporting Limit |
| R - | RPD outside accepted recovery limits | S - | Spike Recovery outside recovery limits |
| T - | TIC(Tentatively identified compound) | X - | Value exceeds Maximum Contaminant Level |

# Case Narrative

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

**Cooler Receipt Temp:** 15.42 °C

## Locations and Accreditations

| | Collinsville | Springfield | Kansas City | Collinsville Air |
|---|---|---|---|---|
| Address | 5445 Horseshoe Lake Road | 3920 Pintail Dr | 8421 Nieman Road | 5445 Horseshoe Lake Road |
| | Collinsville, IL 62234-7425 | Springfield, IL 62711-9415 | Lenexa, KS 66214 | Collinsville, IL 62234-7425 |
| Phone | (618) 344-1004 | (217) 698-1004 | (913) 541-1998 | (618) 344-1004 |
| Fax | (618) 344-1005 | (217) 698-1005 | (913) 541-1998 | (618) 344-1005 |
| Email | jhriley@teklabinc.com | KKlostermann@teklabinc.com | dthompson@teklabinc.com | EHurley@teklabinc.com |

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|---|---|---|---|---|---|
| Illinois | IEPA | 100226 | NELAP | 1/31/2017 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 1/31/2016 | Collinsville |
| Louisiana | LDEQ | 166493 | NELAP | 6/30/2016 | Collinsville |
| Louisiana | LDEQ | 166578 | NELAP | 6/30/2016 | Collinsville |
| Texas | TCEQ | T104704515-12-1 | NELAP | 7/31/2016 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2016 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2017 | Collinsville |
| Kentucky | KDEP | 98006 | | 12/31/2015 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2016 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2017 | Collinsville |
| Oklahoma | ODEQ | 9978 | | 8/31/2016 | Collinsville |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-001
**Client Sample ID:** EB-2
**Matrix:** AQUEOUS
**Collection Date:** 12/21/2015 14:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-001
**Client Sample ID:** EB-2
**Matrix:** AQUEOUS
**Collection Date:** 12/21/2015 14:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Naphthalene | NELAP | 3.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-001
**Client Sample ID:** EB-2
**Matrix:** AQUEOUS
**Collection Date:** 12/21/2015 14:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/28/2015 12:58 | 115260 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **105.2** | %REC | 1 | 12/28/2015 13:56 | 115254 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **97.9** | %REC | 1 | 12/28/2015 13:56 | 115254 |
| Surr: Toluene-d8 | | 84.3-114 | | **100.5** | %REC | 1 | 12/28/2015 13:56 | 115254 |

*Allowable Marginal Exceedance of Allyl chloride in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*
*Allowable Marginal Exceedance of Iodomethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-002
**Client Sample ID:** TB-2
**Matrix:** TRIP BLANK
**Collection Date:** 12/21/2015 16:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-002 **Client Sample ID:** TB-2

**Matrix:** TRIP BLANK **Collection Date:** 12/21/2015 16:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Naphthalene | NELAP | 3.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-002
**Client Sample ID:** TB-2
**Matrix:** TRIP BLANK
**Collection Date:** 12/21/2015 16:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/28/2015 13:25 | 115260 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **103.2** | %REC | 1 | 12/28/2015 14:23 | 115254 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **99.0** | %REC | 1 | 12/28/2015 14:23 | 115254 |
| Surr: Toluene-d8 | | 84.3-114 | | **100.1** | %REC | 1 | 12/28/2015 14:23 | 115254 |

*Allowable Marginal Exceedance of Iodomethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*
*Allowable Marginal Exceedance of Allyl chloride in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-003
**Client Sample ID:** TB-3
**Matrix:** TRIP BLANK
**Collection Date:** 12/21/2015 16:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-003
**Client Sample ID:** TB-3
**Matrix:** TRIP BLANK
**Collection Date:** 12/21/2015 16:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Naphthalene | NELAP | 3.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-003
**Client Sample ID:** TB-3
**Matrix:** TRIP BLANK
**Collection Date:** 12/21/2015 16:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/28/2015 13:51 | 115260 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **102.5** | %REC | 1 | 12/28/2015 14:50 | 115254 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **97.6** | %REC | 1 | 12/28/2015 14:50 | 115254 |
| Surr: Toluene-d8 | | 84.3-114 | | **99.2** | %REC | 1 | 12/28/2015 14:50 | 115254 |

*Allowable Marginal Exceedance of Iodomethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*
*Allowable Marginal Exceedance of Allyl chloride in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-004 **Client Sample ID:** SCI-20A (0-3)

**Matrix:** SOLID **Collection Date:** 12/21/2015 9:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **15.1** | % | 1 | 12/23/2015 20:13 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **12.5** | mg/Kg-dry | 1 | 12/24/2015 1:55 | 115163 |
| Barium | NELAP | 0.24 | | **173** | mg/Kg-dry | 1 | 12/24/2015 1:55 | 115163 |
| Cadmium | NELAP | 0.19 | | **1.68** | mg/Kg-dry | 1 | 12/24/2015 1:55 | 115163 |
| Chromium | NELAP | 0.47 | | **24.5** | mg/Kg-dry | 1 | 12/24/2015 1:55 | 115163 |
| Lead | NELAP | 1.42 | | **390** | mg/Kg-dry | 1 | 12/24/2015 1:55 | 115163 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/24/2015 1:55 | 115163 |
| Silver | NELAP | 0.47 | J | **0.38** | mg/Kg-dry | 1 | 12/24/2015 1:55 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.213** | mg/Kg-dry | 1 | 12/23/2015 12:19 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.199 | | **0.523** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Anthracene | NELAP | 0.199 | | **0.919** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Benzo(a)anthracene | NELAP | 0.199 | | **2.51** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Benzo(a)pyrene | NELAP | 0.199 | | **2.21** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.199 | | **2.96** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.199 | | **0.941** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Chrysene | NELAP | 0.199 | | **2.33** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.199 | | **0.252** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Fluoranthene | NELAP | 0.199 | | **5.28** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Fluorene | NELAP | 0.199 | | **0.326** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Pyrene | NELAP | 0.199 | | **4.72** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| TPH-DRO (C10 - C21) | | 70.3 | J | **43** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| TPH-ORO (C21 - C35) | | 70.3 | | **70.6** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **74.5** | %REC | 5 | 12/24/2015 1:08 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **73.9** | %REC | 5 | 12/24/2015 1:08 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **93.2** | %REC | 5 | 12/24/2015 1:08 | 115140 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,1-Dichloro-2-propanone | | 42.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,1-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,1-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,1-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,2,3-Trimethylbenzene | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,2-Dibromoethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-004
**Client Sample ID:** SCI-20A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 9:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,3-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1-Chlorobutane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 2,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 2-Butanone | NELAP | 42.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 2-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 2-Hexanone | NELAP | 42.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 2-Nitropropane | NELAP | 42.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 4-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 42.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Acetone | NELAP | 42.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Acetonitrile | NELAP | 84.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Acrolein | NELAP | 84.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Acrylonitrile | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Allyl chloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Bromobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Bromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Bromodichloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Bromoform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Bromomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Carbon disulfide | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Carbon tetrachloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Chlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Chloroethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Chloroform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Chloromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Cyclohexanone | | 84.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Dibromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Dibromomethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Dichlorodifluoromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Diisopropyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Ethyl ether | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Ethyl methacrylate | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Ethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Ethyl-tert-butyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Hexachlorobutadiene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Hexachloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Iodomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Isopropylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| m,p-Xylenes | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-004 **Client Sample ID:** SCI-20A (0-3)

**Matrix:** SOLID **Collection Date:** 12/21/2015 9:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 42.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Methyl Methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Methylacrylate | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Methylene chloride | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Naphthalene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| n-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| n-Heptane | | 16.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| n-Hexane | | 16.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Nitrobenzene | NELAP | 84.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| n-Propylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| o-Xylene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Pentachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| p-Isopropyltoluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Propionitrile | NELAP | 42.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| sec-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Styrene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| tert-Amyl methyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| tert-Butyl alcohol | NELAP | 42.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| tert-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Tetrachloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Tetrahydrofuran | NELAP | 42.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Toluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| TPH - GRO (C6 - C10) | | 423 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Trichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Trichlorofluoromethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Vinyl acetate | NELAP | 42.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Xylenes, Total | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **102.5** | %REC | 1 | 12/22/2015 14:37 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **105.8** | %REC | 1 | 12/22/2015 14:37 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **98.9** | %REC | 1 | 12/22/2015 14:37 | 115156 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-005
**Client Sample ID:** SCI-20B (12-16)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 9:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.5** | % | 1 | 12/23/2015 20:13 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **7.71** | mg/Kg-dry | 1 | 12/24/2015 2:02 | 115163 |
| Barium | NELAP | 0.24 | | **142** | mg/Kg-dry | 1 | 12/24/2015 2:02 | 115163 |
| Cadmium | NELAP | 0.19 | | **0.28** | mg/Kg-dry | 1 | 12/24/2015 2:02 | 115163 |
| Chromium | NELAP | 0.48 | | **19.7** | mg/Kg-dry | 1 | 12/24/2015 2:02 | 115163 |
| Lead | NELAP | 1.44 | | **11.6** | mg/Kg-dry | 1 | 12/24/2015 2:02 | 115163 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/24/2015 2:02 | 115163 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/24/2015 2:02 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.032** | mg/Kg-dry | 1 | 12/23/2015 12:37 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Chrysene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Fluorene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Pyrene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| TPH-DRO (C10 - C21) | | 15.1 | J | **7.6** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| TPH-ORO (C21 - C35) | | 15.1 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **75.4** | %REC | 1 | 12/22/2015 14:22 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **68.0** | %REC | 1 | 12/22/2015 14:22 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.8** | %REC | 1 | 12/22/2015 14:22 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,1-Dichloro-2-propanone | | 43.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-005 **Client Sample ID:** SCI-20B (12-16)

**Matrix:** SOLID **Collection Date:** 12/21/2015 9:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 2-Butanone | NELAP | 43.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 2-Hexanone | NELAP | 43.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 2-Nitropropane | NELAP | 43.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 43.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Acetone | NELAP | 43.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Acetonitrile | NELAP | 87.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Acrolein | NELAP | 87.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Acrylonitrile | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Bromomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Chloroethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Chloromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Cyclohexanone | | 87.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Dichlorodifluoromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Iodomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Methacrylonitrile | NELAP | 43.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121500-005
**Matrix:** SOLID

**Work Order:** 15121500
**Report Date:** 28-Dec-15
**Client Sample ID:** SCI-20B (12-16)
**Collection Date:** 12/21/2015 9:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Methylacrylate | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Naphthalene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| n-Heptane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| n-Hexane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Nitrobenzene | NELAP | 87.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Propionitrile | NELAP | 43.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| tert-Butyl alcohol | NELAP | 43.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Tetrahydrofuran | NELAP | 43.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| TPH - GRO (C6 - C10) | | 439 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Vinyl acetate | NELAP | 43.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.5** | %REC | 1 | 12/22/2015 15:02 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.1** | %REC | 1 | 12/22/2015 15:02 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **96.2** | %REC | 1 | 12/22/2015 15:02 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-006
**Client Sample ID:** SCI-21A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 8:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.8** | % | 1 | 12/23/2015 20:14 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **9.57** | mg/Kg-dry | 1 | 12/24/2015 2:08 | 115163 |
| Barium | NELAP | 0.25 | | **177** | mg/Kg-dry | 1 | 12/24/2015 2:08 | 115163 |
| Cadmium | NELAP | 0.20 | | **0.85** | mg/Kg-dry | 1 | 12/24/2015 2:08 | 115163 |
| Chromium | NELAP | 0.50 | | **19.8** | mg/Kg-dry | 1 | 12/24/2015 2:08 | 115163 |
| Lead | NELAP | 1.50 | | **227** | mg/Kg-dry | 1 | 12/28/2015 11:38 | 115232 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 2:08 | 115163 |
| Silver | NELAP | 0.50 | J | **0.27** | mg/Kg-dry | 1 | 12/24/2015 2:08 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.279** | mg/Kg-dry | 1 | 12/23/2015 12:40 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.207 | | **0.313** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Anthracene | NELAP | 0.207 | | **0.681** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Benzo(a)anthracene | NELAP | 0.207 | | **1.70** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Benzo(a)pyrene | NELAP | 0.207 | | **1.40** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.207 | | **1.77** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.207 | | **0.732** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Chrysene | NELAP | 0.207 | | **1.48** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.207 | J | **0.16** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Fluoranthene | NELAP | 0.207 | | **3.84** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Fluorene | NELAP | 0.207 | | **0.252** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Pyrene | NELAP | 0.207 | | **3.27** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| TPH-DRO (C10 - C21) | | 73.2 | J | **38** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| TPH-ORO (C21 - C35) | | 73.2 | J | **54** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **63.3** | %REC | 5 | 12/24/2015 0:38 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **65.3** | %REC | 5 | 12/24/2015 0:38 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **79.8** | %REC | 5 | 12/24/2015 0:38 | 115140 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,1-Dichloro-2-propanone | | 39.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,1-Dichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,1-Dichloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,1-Dichloropropene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,2,3-Trimethylbenzene | | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,2-Dibromoethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-006
**Client Sample ID:** SCI-21A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 8:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,2-Dichloropropane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,3-Dichloropropane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1-Chlorobutane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 2,2-Dichloropropane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 2-Butanone | NELAP | 39.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 2-Chlorotoluene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 2-Hexanone | NELAP | 39.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 2-Nitropropane | NELAP | 39.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 4-Chlorotoluene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 39.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Acetone | NELAP | 39.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Acetonitrile | NELAP | 79.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Acrolein | NELAP | 79.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Acrylonitrile | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Allyl chloride | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Bromobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Bromochloromethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Bromodichloromethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Bromoform | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Bromomethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Carbon disulfide | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Carbon tetrachloride | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Chlorobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Chloroethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Chloroform | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Chloromethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 3.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Cyclohexanone | | 79.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Dibromochloromethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Dibromomethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Dichlorodifluoromethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Diisopropyl ether | | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Ethyl ether | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Ethyl methacrylate | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Ethylbenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Ethyl-tert-butyl ether | | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Hexachlorobutadiene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Hexachloroethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Iodomethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Isopropylbenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| m,p-Xylenes | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-006
**Client Sample ID:** SCI-21A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 8:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 39.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Methyl Methacrylate | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Methyl tert-butyl ether | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Methylacrylate | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Methylene chloride | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Naphthalene | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| n-Butylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| n-Heptane | | 15.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| n-Hexane | | 15.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Nitrobenzene | NELAP | 79.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| n-Propylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| o-Xylene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Pentachloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| p-Isopropyltoluene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Propionitrile | NELAP | 39.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| sec-Butylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Styrene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| tert-Amyl methyl ether | | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| tert-Butyl alcohol | NELAP | 39.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| tert-Butylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Tetrachloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Tetrahydrofuran | NELAP | 39.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Toluene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| TPH - GRO (C6 - C10) | | 398 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 3.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Trichloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Trichlorofluoromethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Vinyl acetate | NELAP | 39.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Vinyl chloride | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Xylenes, Total | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.1** | %REC | 1 | 12/22/2015 15:28 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.2** | %REC | 1 | 12/22/2015 15:28 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **98.7** | %REC | 1 | 12/22/2015 15:28 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-007
**Client Sample ID:** SCI-21B (4-8)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 8:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.6** | % | 1 | 12/23/2015 20:14 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **6.10** | mg/Kg-dry | 1 | 12/24/2015 2:26 | 115163 |
| Barium | NELAP | 0.23 | | **127** | mg/Kg-dry | 1 | 12/24/2015 2:26 | 115163 |
| Cadmium | NELAP | 0.19 | | **0.24** | mg/Kg-dry | 1 | 12/24/2015 2:26 | 115163 |
| Chromium | NELAP | 0.46 | | **21.1** | mg/Kg-dry | 1 | 12/24/2015 2:26 | 115163 |
| Lead | NELAP | 1.39 | | **9.98** | mg/Kg-dry | 1 | 12/24/2015 2:26 | 115163 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 12/24/2015 2:26 | 115163 |
| Silver | NELAP | 0.46 | J | **0.14** | mg/Kg-dry | 1 | 12/24/2015 2:26 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.032** | mg/Kg-dry | 1 | 12/23/2015 12:42 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Anthracene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Chrysene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Fluoranthene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Fluorene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Pyrene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| TPH-DRO (C10 - C21) | | 14.3 | J | **7.3** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| TPH-ORO (C21 - C35) | | 14.3 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **73.7** | %REC | 1 | 12/22/2015 14:52 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **72.4** | %REC | 1 | 12/22/2015 14:52 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **87.9** | %REC | 1 | 12/22/2015 14:52 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,1-Dichloro-2-propanone | | 39.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,1-Dichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,1-Dichloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,1-Dichloropropene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,2,3-Trimethylbenzene | | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,2-Dibromoethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,2-Dichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-007
**Client Sample ID:** SCI-21B (4-8)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 8:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,3-Dichloropropane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1-Chlorobutane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 2,2-Dichloropropane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 2-Butanone | NELAP | 39.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 2-Chlorotoluene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 2-Hexanone | NELAP | 39.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 2-Nitropropane | NELAP | 39.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 4-Chlorotoluene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 39.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Acetone | NELAP | 39.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Acetonitrile | NELAP | 79.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Acrolein | NELAP | 79.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Acrylonitrile | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Allyl chloride | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Bromobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Bromochloromethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Bromodichloromethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Bromoform | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Bromomethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Carbon disulfide | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Carbon tetrachloride | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Chlorobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Chloroethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Chloroform | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Chloromethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 3.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Cyclohexanone | | 79.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Dibromochloromethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Dibromomethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Dichlorodifluoromethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Diisopropyl ether | | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Ethyl ether | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Ethyl methacrylate | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Ethylbenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Ethyl-tert-butyl ether | | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Hexachlorobutadiene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Hexachloroethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Iodomethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Isopropylbenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| m,p-Xylenes | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Methacrylonitrile | NELAP | 39.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-007
**Client Sample ID:** SCI-21B (4-8)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 8:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Methyl tert-butyl ether | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Methylacrylate | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Methylene chloride | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Naphthalene | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| n-Butylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| n-Heptane | | 16.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| n-Hexane | | 16.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Nitrobenzene | NELAP | 79.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| n-Propylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| o-Xylene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Pentachloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| p-Isopropyltoluene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Propionitrile | NELAP | 39.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| sec-Butylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Styrene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| tert-Amyl methyl ether | | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| tert-Butyl alcohol | NELAP | 39.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| tert-Butylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Tetrachloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Tetrahydrofuran | NELAP | 39.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Toluene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| TPH - GRO (C6 - C10) | | 399 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 3.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Trichloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Trichlorofluoromethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Vinyl acetate | NELAP | 39.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Vinyl chloride | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Xylenes, Total | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **102.0** | %REC | 1 | 12/22/2015 15:55 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.6** | %REC | 1 | 12/22/2015 15:55 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **99.3** | %REC | 1 | 12/22/2015 15:55 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-008
**Client Sample ID:** SCI-22A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 9:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.0** | % | 1 | 12/23/2015 20:14 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **10.4** | mg/Kg-dry | 1 | 12/24/2015 2:32 | 115163 |
| Barium | NELAP | 0.25 | | **253** | mg/Kg-dry | 1 | 12/24/2015 2:32 | 115163 |
| Cadmium | NELAP | 0.20 | | **0.73** | mg/Kg-dry | 1 | 12/24/2015 2:32 | 115163 |
| Chromium | NELAP | 0.50 | | **21.2** | mg/Kg-dry | 1 | 12/24/2015 2:32 | 115163 |
| Lead | NELAP | 1.50 | | **267** | mg/Kg-dry | 1 | 12/24/2015 2:32 | 115163 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 2:32 | 115163 |
| Silver | NELAP | 0.50 | J | **0.23** | mg/Kg-dry | 1 | 12/24/2015 2:32 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.560** | mg/Kg-dry | 1 | 12/23/2015 12:44 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.401 | | **1.21** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Anthracene | NELAP | 0.401 | | **2.97** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Benzo(a)anthracene | NELAP | 0.401 | | **6.38** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Benzo(a)pyrene | NELAP | 0.401 | | **5.15** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.401 | | **6.81** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.401 | | **2.27** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Chrysene | NELAP | 0.401 | | **5.86** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.401 | | **0.559** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Fluoranthene | NELAP | 0.401 | | **14.9** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Fluorene | NELAP | 0.401 | | **0.944** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Pyrene | NELAP | 0.401 | | **12.1** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| TPH-DRO (C10 - C21) | | 142 | J | **95** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| TPH-ORO (C21 - C35) | | 142 | | **155** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **68.7** | %REC | 10 | 12/24/2015 0:08 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **61.9** | %REC | 10 | 12/24/2015 0:08 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **83.4** | %REC | 10 | 12/24/2015 0:08 | 115140 |
| *Elevated reporting limit due to sample extract composition.* | | | | | | | | |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,1-Dichloro-2-propanone | | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-008 **Client Sample ID:** SCI-22A (0-3)

**Matrix:** SOLID **Collection Date:** 12/21/2015 9:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 2-Butanone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 2-Hexanone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 2-Nitropropane | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Acetone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Acetonitrile | NELAP | 90.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Acrolein | NELAP | 90.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Acrylonitrile | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Bromomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Chloroethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Chloromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Cyclohexanone | | 90.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Dichlorodifluoromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Iodomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-008
**Client Sample ID:** SCI-22A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 9:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Methylacrylate | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Naphthalene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| n-Heptane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| n-Hexane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Nitrobenzene | NELAP | 90.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Propionitrile | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| tert-Butyl alcohol | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Tetrahydrofuran | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| TPH - GRO (C6 - C10) | | 453 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Vinyl acetate | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **102.8** | %REC | 1 | 12/22/2015 16:21 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.8** | %REC | 1 | 12/22/2015 16:21 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **99.0** | %REC | 1 | 12/22/2015 16:21 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-009 **Client Sample ID:** SCI-22B (8-12)

**Matrix:** SOLID **Collection Date:** 12/21/2015 9:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.8** | % | 1 | 12/23/2015 20:15 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **8.00** | mg/Kg-dry | 1 | 12/24/2015 2:50 | 115163 |
| Barium | NELAP | 0.25 | | **129** | mg/Kg-dry | 1 | 12/24/2015 2:50 | 115163 |
| Cadmium | NELAP | 0.20 | | **0.66** | mg/Kg-dry | 1 | 12/24/2015 2:50 | 115163 |
| Chromium | NELAP | 0.50 | | **16.8** | mg/Kg-dry | 1 | 12/24/2015 2:50 | 115163 |
| Lead | NELAP | 1.50 | | **81.1** | mg/Kg-dry | 1 | 12/24/2015 2:50 | 115163 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 2:50 | 115163 |
| Silver | NELAP | 0.50 | J | **0.43** | mg/Kg-dry | 1 | 12/24/2015 2:50 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.253 | | **1.17** | mg/Kg-dry | 20 | 12/23/2015 13:57 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.214 | J | **0.18** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Anthracene | NELAP | 0.214 | | **0.382** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Benzo(a)anthracene | NELAP | 0.214 | | **1.17** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Benzo(a)pyrene | NELAP | 0.214 | | **1.04** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.214 | | **1.42** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.214 | | **0.457** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Chrysene | NELAP | 0.214 | | **1.13** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.214 | J | **0.13** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Fluoranthene | NELAP | 0.214 | | **2.71** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Fluorene | NELAP | 0.214 | J | **0.13** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Pyrene | NELAP | 0.214 | | **2.39** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| TPH-DRO (C10 - C21) | | 75.5 | J | **38** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| TPH-ORO (C21 - C35) | | 75.5 | J | **45** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.3** | %REC | 5 | 12/23/2015 23:38 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **67.7** | %REC | 5 | 12/23/2015 23:38 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **84.4** | %REC | 5 | 12/23/2015 23:38 | 115140 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,1-Dichloro-2-propanone | | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-009
**Client Sample ID:** SCI-22B (8-12)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 9:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,2-Dichloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,3-Dichloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1-Chlorobutane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 2,2-Dichloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 2-Butanone | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 2-Chlorotoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 2-Hexanone | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 2-Nitropropane | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 4-Chlorotoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Acetone | NELAP | 44.4 | J | **18** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Acetonitrile | NELAP | 88.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Acrolein | NELAP | 88.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Acrylonitrile | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Allyl chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Benzene | NELAP | 0.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Bromobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Bromochloromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Bromodichloromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Bromoform | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Bromomethane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Carbon disulfide | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Carbon tetrachloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Chlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Chloroethane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Chloroform | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Chloromethane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Cyclohexanone | | 88.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Dibromochloromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Dibromomethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Dichlorodifluoromethane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Diisopropyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Ethyl ether | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Ethyl methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Ethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Ethyl-tert-butyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Hexachlorobutadiene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Hexachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Iodomethane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Isopropylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| m,p-Xylenes | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-009
**Client Sample ID:** SCI-22B (8-12)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 9:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Methylacrylate | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Naphthalene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| n-Heptane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| n-Hexane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Nitrobenzene | NELAP | 88.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Propionitrile | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| tert-Butyl alcohol | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Tetrahydrofuran | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| TPH - GRO (C6 - C10) | | 444 | J | **260** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Vinyl acetate | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **98.2** | %REC | 1 | 12/22/2015 16:47 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **111.4** | %REC | 1 | 12/22/2015 16:47 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **104.6** | %REC | 1 | 12/22/2015 16:47 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-010 **Client Sample ID:** SCI-23A (0-3)

**Matrix:** SOLID **Collection Date:** 12/21/2015 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **24.8** | % | 1 | 12/23/2015 20:15 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **12.9** | mg/Kg-dry | 1 | 12/24/2015 2:56 | 115163 |
| Barium | NELAP | 0.25 | | **290** | mg/Kg-dry | 1 | 12/24/2015 2:56 | 115163 |
| Cadmium | NELAP | 0.20 | | **1.35** | mg/Kg-dry | 1 | 12/24/2015 2:56 | 115163 |
| Chromium | NELAP | 0.50 | | **23.3** | mg/Kg-dry | 1 | 12/24/2015 2:56 | 115163 |
| Lead | NELAP | 1.50 | | **341** | mg/Kg-dry | 1 | 12/24/2015 2:56 | 115163 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 2:56 | 115163 |
| Silver | NELAP | 0.50 | J | **0.39** | mg/Kg-dry | 1 | 12/24/2015 2:56 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.405** | mg/Kg-dry | 1 | 12/23/2015 12:49 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 1.11 | | **2.90** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Anthracene | NELAP | 1.11 | | **7.30** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Benzo(a)anthracene | NELAP | 1.11 | | **19.0** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Benzo(a)pyrene | NELAP | 1.11 | | **16.2** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Benzo(b)fluoranthene | NELAP | 1.11 | | **22.1** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Benzo(k)fluoranthene | NELAP | 1.11 | | **7.56** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Chrysene | NELAP | 1.11 | | **17.1** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 1.11 | | **1.59** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Fluoranthene | NELAP | 1.11 | | **42.5** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Fluorene | NELAP | 1.11 | | **2.46** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Pyrene | NELAP | 1.11 | | **36.7** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| TPH-DRO (C10 - C21) | | 392 | J | **270** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| TPH-ORO (C21 - C35) | | 392 | | **452** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **72.9** | %REC | 25 | 12/22/2015 21:21 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **73.9** | %REC | 25 | 12/22/2015 21:21 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **94.8** | %REC | 25 | 12/22/2015 21:21 | 115140 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,1,1-Trichloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,1,2-Trichloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,1-Dichloro-2-propanone | | 58.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,1-Dichloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,1-Dichloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,1-Dichloropropene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,2,3-Trichlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,2,3-Trichloropropane | NELAP | 11.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,2,3-Trimethylbenzene | | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,2,4-Trichlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,2,4-Trimethylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,2-Dibromoethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,2-Dichlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-010 **Client Sample ID:** SCI-23A (0-3)

**Matrix:** SOLID **Collection Date:** 12/21/2015 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,2-Dichloropropane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,3,5-Trimethylbenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,3-Dichlorobenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,3-Dichloropropane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,4-Dichlorobenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1-Chlorobutane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 2,2-Dichloropropane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 2-Butanone | NELAP | 58.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 2-Chlorotoluene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 2-Hexanone | NELAP | 58.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 2-Nitropropane | NELAP | 58.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 4-Chlorotoluene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 4-Methyl-2-pentanone | NELAP | 58.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Acetone | NELAP | 58.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Acetonitrile | NELAP | 116 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Acrolein | NELAP | 116 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Acrylonitrile | NELAP | 11.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Allyl chloride | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Benzene | NELAP | 1.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Bromobenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Bromochloromethane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Bromodichloromethane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Bromoform | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Bromomethane | NELAP | 11.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Carbon disulfide | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Carbon tetrachloride | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Chlorobenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Chloroethane | NELAP | 11.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Chloroform | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Chloromethane | NELAP | 11.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| cis-1,2-Dichloroethene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| cis-1,3-Dichloropropene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Cyclohexanone | | 116 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Dibromochloromethane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Dibromomethane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Dichlorodifluoromethane | NELAP | 11.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Diisopropyl ether | | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Ethyl ether | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Ethyl methacrylate | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Ethylbenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Ethyl-tert-butyl ether | | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Hexachlorobutadiene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Hexachloroethane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Iodomethane | NELAP | 11.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Isopropylbenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| m,p-Xylenes | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-010
**Client Sample ID:** SCI-23A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 58.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Methyl Methacrylate | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Methyl tert-butyl ether | NELAP | 2.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Methylacrylate | NELAP | 11.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Methylene chloride | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Naphthalene | NELAP | 11.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| n-Butylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| n-Heptane | | 23.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| n-Hexane | | 23.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Nitrobenzene | NELAP | 116 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| n-Propylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| o-Xylene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Pentachloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| p-Isopropyltoluene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Propionitrile | NELAP | 58.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| sec-Butylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Styrene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| tert-Amyl methyl ether | | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| tert-Butyl alcohol | NELAP | 58.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| tert-Butylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Tetrachloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Tetrahydrofuran | NELAP | 58.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Toluene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| TPH - GRO (C6 - C10) | | 580 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| trans-1,2-Dichloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| trans-1,3-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| trans-1,4-Dichloro-2-butene | NELAP | 11.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Trichloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Trichlorofluoromethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Vinyl acetate | NELAP | 58.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Vinyl chloride | NELAP | 2.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Xylenes, Total | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **105.9** | %REC | 1 | 12/23/2015 12:50 | 115190 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | S | **118.4** | %REC | 1 | 12/23/2015 12:50 | 115190 |
| Surr: Toluene-d8 | | 86-116 | | **102.3** | %REC | 1 | 12/23/2015 12:50 | 115190 |

*Surrogate recovery is outside QC limits due to matrix interference.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-011
**Client Sample ID:** SCI-23B (8-12)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **22.2** | % | 1 | 12/23/2015 20:15 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **5.56** | mg/Kg-dry | 1 | 12/24/2015 3:03 | 115163 |
| Barium | NELAP | 0.25 | | **220** | mg/Kg-dry | 1 | 12/24/2015 3:03 | 115163 |
| Cadmium | NELAP | 0.20 | J | **0.16** | mg/Kg-dry | 1 | 12/24/2015 3:03 | 115163 |
| Chromium | NELAP | 0.49 | | **11.9** | mg/Kg-dry | 1 | 12/24/2015 3:03 | 115163 |
| Lead | NELAP | 1.47 | | **15.4** | mg/Kg-dry | 1 | 12/24/2015 3:03 | 115163 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 12/24/2015 3:03 | 115163 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 12/24/2015 3:03 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.053** | mg/Kg-dry | 1 | 12/23/2015 12:51 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Anthracene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Chrysene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Fluoranthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Fluorene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Pyrene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| TPH-DRO (C10 - C21) | | 15.1 | J | **14** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| TPH-ORO (C21 - C35) | | 15.1 | J | **9.5** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **74.1** | %REC | 1 | 12/23/2015 22:08 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **69.0** | %REC | 1 | 12/23/2015 22:08 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **86.7** | %REC | 1 | 12/23/2015 22:08 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,1-Dichloro-2-propanone | | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,1-Dichloroethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,1-Dichloroethene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,1-Dichloropropene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,2,3-Trimethylbenzene | | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,2-Dibromoethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,2-Dichloroethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-011 **Client Sample ID:** SCI-23B (8-12)

**Matrix:** SOLID **Collection Date:** 12/21/2015 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,3-Dichloropropane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1-Chlorobutane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 2,2-Dichloropropane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 2-Butanone | NELAP | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 2-Chlorotoluene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 2-Hexanone | NELAP | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 2-Nitropropane | NELAP | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 4-Chlorotoluene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Acetone | NELAP | 53.5 | J | **28** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Acetonitrile | NELAP | 107 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Acrolein | NELAP | 107 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Acrylonitrile | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Allyl chloride | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Benzene | NELAP | 1.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Bromobenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Bromochloromethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Bromodichloromethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Bromoform | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Bromomethane | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Carbon disulfide | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Carbon tetrachloride | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Chlorobenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Chloroethane | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Chloroform | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Chloromethane | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Cyclohexanone | | 107 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Dibromochloromethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Dibromomethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Dichlorodifluoromethane | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Diisopropyl ether | | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Ethyl ether | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Ethyl methacrylate | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Ethylbenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Ethyl-tert-butyl ether | | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Hexachlorobutadiene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Hexachloroethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Iodomethane | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Isopropylbenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| m,p-Xylenes | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Methacrylonitrile | NELAP | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-011
**Client Sample ID:** SCI-23B (8-12)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Methyl tert-butyl ether | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Methylacrylate | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Methylene chloride | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Naphthalene | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| n-Butylbenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| n-Heptane | | 21.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| n-Hexane | | 21.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Nitrobenzene | NELAP | 107 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| n-Propylbenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| o-Xylene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Pentachloroethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| p-Isopropyltoluene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Propionitrile | NELAP | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| sec-Butylbenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Styrene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| tert-Amyl methyl ether | | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| tert-Butyl alcohol | NELAP | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| tert-Butylbenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Tetrachloroethene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Tetrahydrofuran | NELAP | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Toluene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| TPH - GRO (C6 - C10) | | 535 | J | **250** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Trichloroethene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Trichlorofluoromethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Vinyl acetate | NELAP | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Vinyl chloride | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Xylenes, Total | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **97.7** | %REC | 1 | 12/22/2015 17:39 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **111.3** | %REC | 1 | 12/22/2015 17:39 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **102.7** | %REC | 1 | 12/22/2015 17:39 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-012 **Client Sample ID:** SCI-24A (0-3)

**Matrix:** SOLID **Collection Date:** 12/21/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.2** | % | 1 | 12/23/2015 20:16 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **9.78** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115163 |
| Barium | NELAP | 0.25 | | **260** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115163 |
| Cadmium | NELAP | 0.20 | | **1.04** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115163 |
| Chromium | NELAP | 0.50 | | **20.8** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115163 |
| Lead | NELAP | 1.50 | | **427** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115163 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115163 |
| Silver | NELAP | 0.50 | J | **0.36** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.438** | mg/Kg-dry | 1 | 12/23/2015 12:58 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 1.05 | | **2.35** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Anthracene | NELAP | 1.05 | | **6.26** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Benzo(a)anthracene | NELAP | 1.05 | | **21.9** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Benzo(a)pyrene | NELAP | 1.05 | | **20.5** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Benzo(b)fluoranthene | NELAP | 1.05 | | **28.2** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Benzo(k)fluoranthene | NELAP | 1.05 | | **8.50** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Chrysene | NELAP | 1.05 | | **21.2** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 1.05 | | **1.94** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Fluoranthene | NELAP | 1.05 | | **50.5** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Fluorene | NELAP | 1.05 | | **1.92** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Pyrene | NELAP | 1.05 | | **44.2** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| TPH-DRO (C10 - C21) | | 370 | J | **220** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| TPH-ORO (C21 - C35) | | 370 | | **468** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **69.4** | %REC | 25 | 12/25/2015 4:40 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **62.9** | %REC | 25 | 12/25/2015 4:40 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.3** | %REC | 25 | 12/25/2015 4:40 | 115140 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,1-Dichloro-2-propanone | | 51.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,1-Dichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,1-Dichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,1-Dichloropropene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 10.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,2,3-Trimethylbenzene | | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,2-Dibromoethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-012
**Client Sample ID:** SCI-24A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,2-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,3-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1-Chlorobutane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 2,2-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 2-Butanone | NELAP | 51.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 2-Chlorotoluene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 2-Hexanone | NELAP | 51.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 2-Nitropropane | NELAP | 51.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 4-Chlorotoluene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 51.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Acetone | NELAP | 51.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Acetonitrile | NELAP | 103 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Acrolein | NELAP | 103 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Acrylonitrile | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Allyl chloride | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Bromobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Bromochloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Bromodichloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Bromoform | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Bromomethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Carbon disulfide | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Carbon tetrachloride | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Chlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Chloroethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Chloroform | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Chloromethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Cyclohexanone | | 103 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Dibromochloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Dibromomethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Dichlorodifluoromethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Diisopropyl ether | | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Ethyl ether | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Ethyl methacrylate | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Ethylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Ethyl-tert-butyl ether | | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Hexachlorobutadiene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Hexachloroethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Iodomethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Isopropylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| m,p-Xylenes | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-012
**Client Sample ID:** SCI-24A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 51.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Methyl Methacrylate | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Methyl tert-butyl ether | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Methylacrylate | NELAP | 10.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Methylene chloride | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Naphthalene | NELAP | 10.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| n-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| n-Heptane | | 20.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| n-Hexane | | 20.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Nitrobenzene | NELAP | 103 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| n-Propylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| o-Xylene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Pentachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| p-Isopropyltoluene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Propionitrile | NELAP | 51.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| sec-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Styrene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| tert-Amyl methyl ether | | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| tert-Butyl alcohol | NELAP | 51.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| tert-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Tetrachloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Tetrahydrofuran | NELAP | 51.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Toluene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| TPH - GRO (C6 - C10) | | 515 | J | **270** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Trichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Trichlorofluoromethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Vinyl acetate | NELAP | 51.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Vinyl chloride | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Xylenes, Total | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **99.4** | %REC | 1 | 12/22/2015 18:05 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **114.0** | %REC | 1 | 12/22/2015 18:05 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **103.5** | %REC | 1 | 12/22/2015 18:05 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-013
**Client Sample ID:** SCI-24B (4-8)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.6** | % | 1 | 12/23/2015 20:17 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **7.32** | mg/Kg-dry | 1 | 12/24/2015 3:15 | 115163 |
| Barium | NELAP | 0.24 | | **159** | mg/Kg-dry | 1 | 12/24/2015 3:15 | 115163 |
| Cadmium | NELAP | 0.19 | | **0.21** | mg/Kg-dry | 1 | 12/24/2015 3:15 | 115163 |
| Chromium | NELAP | 0.48 | | **18.3** | mg/Kg-dry | 1 | 12/24/2015 3:15 | 115163 |
| Lead | NELAP | 1.44 | | **10.4** | mg/Kg-dry | 1 | 12/24/2015 3:15 | 115163 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/24/2015 3:15 | 115163 |
| Silver | NELAP | 0.48 | J | **0.19** | mg/Kg-dry | 1 | 12/24/2015 3:15 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.037** | mg/Kg-dry | 1 | 12/23/2015 13:00 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Anthracene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Chrysene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Fluoranthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Fluorene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Pyrene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| TPH-DRO (C10 - C21) | | 15.0 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| TPH-ORO (C21 - C35) | | 15.0 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **76.4** | %REC | 1 | 12/22/2015 15:22 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.9** | %REC | 1 | 12/22/2015 15:22 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **90.2** | %REC | 1 | 12/22/2015 15:22 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,1-Dichloro-2-propanone | | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-013 **Client Sample ID:** SCI-24B (4-8)

**Matrix:** SOLID **Collection Date:** 12/21/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 2-Butanone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 2-Hexanone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 2-Nitropropane | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Acetone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Acetonitrile | NELAP | 93.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Acrolein | NELAP | 93.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Acrylonitrile | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Bromomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Chloroethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Chloromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Cyclohexanone | | 93.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Dichlorodifluoromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Iodomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Methacrylonitrile | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-013
**Client Sample ID:** SCI-24B (4-8)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Methylacrylate | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Methylene chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Naphthalene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| n-Heptane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| n-Hexane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Nitrobenzene | NELAP | 93.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Propionitrile | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| tert-Butyl alcohol | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Tetrahydrofuran | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| TPH - GRO (C6 - C10) | | 469 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Vinyl acetate | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.9** | %REC | 1 | 12/22/2015 12:34 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.9** | %REC | 1 | 12/22/2015 12:34 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **104.0** | %REC | 1 | 12/22/2015 12:34 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-014
**Client Sample ID:** SCI-25A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **15.3** | % | 1 | 12/23/2015 20:17 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **6.38** | mg/Kg-dry | 1 | 12/24/2015 3:21 | 115163 |
| Barium | NELAP | 0.24 | | **143** | mg/Kg-dry | 1 | 12/24/2015 3:21 | 115163 |
| Cadmium | NELAP | 0.19 | | **0.73** | mg/Kg-dry | 1 | 12/24/2015 3:21 | 115163 |
| Chromium | NELAP | 0.47 | | **13.1** | mg/Kg-dry | 1 | 12/24/2015 3:21 | 115163 |
| Lead | NELAP | 1.42 | | **404** | mg/Kg-dry | 1 | 12/24/2015 3:21 | 115163 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/24/2015 3:21 | 115163 |
| Silver | NELAP | 0.47 | J | **0.24** | mg/Kg-dry | 1 | 12/24/2015 3:21 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.125** | mg/Kg-dry | 1 | 12/23/2015 13:07 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **0.229** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Anthracene | NELAP | 0.0400 | | **0.580** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **2.05** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **1.81** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **2.70** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **0.779** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Chrysene | NELAP | 0.0400 | | **1.78** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **0.163** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Fluoranthene | NELAP | 0.0400 | | **4.18** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Fluorene | NELAP | 0.0400 | | **0.160** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Pyrene | NELAP | 0.0400 | | **3.86** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| TPH-DRO (C10 - C21) | | 14.1 | | **16.9** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| TPH-ORO (C21 - C35) | | 14.1 | | **46.4** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **68.1** | %REC | 1 | 12/28/2015 11:18 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **64.6** | %REC | 1 | 12/28/2015 11:18 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **83.2** | %REC | 1 | 12/28/2015 11:18 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,1,1-Trichloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,1,2,2-Tetrachloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,1,2-Trichloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,1-Dichloro-2-propanone | | 65.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,1-Dichloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,1-Dichloroethene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,1-Dichloropropene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,2,3-Trichlorobenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,2,3-Trichloropropane | NELAP | 13.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,2,3-Trimethylbenzene | | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,2,4-Trichlorobenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,2,4-Trimethylbenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,2-Dibromo-3-chloropropane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,2-Dibromoethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,2-Dichlorobenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,2-Dichloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-014
**Client Sample ID:** SCI-25A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,3,5-Trimethylbenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,3-Dichlorobenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,3-Dichloropropane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,4-Dichlorobenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1-Chlorobutane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 2,2-Dichloropropane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 2-Butanone | NELAP | 65.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 2-Chlorotoluene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 2-Hexanone | NELAP | 65.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 2-Nitropropane | NELAP | 65.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 4-Chlorotoluene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 4-Methyl-2-pentanone | NELAP | 65.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Acetone | NELAP | 65.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Acetonitrile | NELAP | 131 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Acrolein | NELAP | 131 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Acrylonitrile | NELAP | 13.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Allyl chloride | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Benzene | NELAP | 1.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Bromobenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Bromochloromethane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Bromodichloromethane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Bromoform | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Bromomethane | NELAP | 13.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Carbon disulfide | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Carbon tetrachloride | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Chlorobenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Chloroethane | NELAP | 13.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Chloroform | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Chloromethane | NELAP | 13.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| cis-1,2-Dichloroethene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| cis-1,3-Dichloropropene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Cyclohexanone | | 131 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Dibromochloromethane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Dibromomethane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Dichlorodifluoromethane | NELAP | 13.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Diisopropyl ether | | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Ethyl ether | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Ethyl methacrylate | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Ethylbenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Ethyl-tert-butyl ether | | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Hexachlorobutadiene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Hexachloroethane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Iodomethane | NELAP | 13.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Isopropylbenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| m,p-Xylenes | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Methacrylonitrile | NELAP | 65.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-014
**Client Sample ID:** SCI-25A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Methyl tert-butyl ether | NELAP | 2.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Methylacrylate | NELAP | 13.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Methylene chloride | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Naphthalene | NELAP | 13.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| n-Butylbenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| n-Heptane | | 26.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| n-Hexane | | 26.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Nitrobenzene | NELAP | 131 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| n-Propylbenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| o-Xylene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Pentachloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| p-Isopropyltoluene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Propionitrile | NELAP | 65.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| sec-Butylbenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Styrene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| tert-Amyl methyl ether | | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| tert-Butyl alcohol | NELAP | 65.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| tert-Butylbenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Tetrachloroethene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Tetrahydrofuran | NELAP | 65.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Toluene | NELAP | 6.6 | J | **1.5** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| TPH - GRO (C6 - C10) | | 657 | J | **410** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| trans-1,2-Dichloroethene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| trans-1,3-Dichloropropene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| trans-1,4-Dichloro-2-butene | NELAP | 13.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Trichloroethene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Trichlorofluoromethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Vinyl acetate | NELAP | 65.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Vinyl chloride | NELAP | 2.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Xylenes, Total | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.5** | %REC | 1 | 12/23/2015 13:17 | 115190 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | S | **122.8** | %REC | 1 | 12/23/2015 13:17 | 115190 |
| Surr: Toluene-d8 | | 86-116 | | **105.7** | %REC | 1 | 12/23/2015 13:17 | 115190 |

*Surrogate recovery is outside QC limits due to matrix interference.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-015
**Client Sample ID:** SCI-25B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **28.0** | % | 1 | 12/23/2015 20:18 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **9.50** | mg/Kg-dry | 1 | 12/24/2015 3:27 | 115163 |
| Barium | NELAP | 0.23 | | **183** | mg/Kg-dry | 1 | 12/24/2015 3:27 | 115163 |
| Cadmium | NELAP | 0.18 | | **0.28** | mg/Kg-dry | 1 | 12/24/2015 3:27 | 115163 |
| Chromium | NELAP | 0.45 | | **21.1** | mg/Kg-dry | 1 | 12/24/2015 3:27 | 115163 |
| Lead | NELAP | 1.36 | | **42.0** | mg/Kg-dry | 1 | 12/24/2015 3:27 | 115163 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 12/24/2015 3:27 | 115163 |
| Silver | NELAP | 0.45 | J | **0.19** | mg/Kg-dry | 1 | 12/24/2015 3:27 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.014 | | **0.486** | mg/Kg-dry | 1 | 12/23/2015 13:09 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Anthracene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Chrysene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Fluoranthene | NELAP | 0.0468 | J | **0.023** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Fluorene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Pyrene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| TPH-DRO (C10 - C21) | | 16.5 | | **34.2** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| TPH-ORO (C21 - C35) | | 16.5 | J | **15** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **69.9** | %REC | 1 | 12/23/2015 23:08 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **67.1** | %REC | 1 | 12/23/2015 23:08 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **87.4** | %REC | 1 | 12/23/2015 23:08 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,1-Dichloro-2-propanone | | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,1-Dichloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,1-Dichloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,1-Dichloropropene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,2,3-Trimethylbenzene | | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,2-Dibromoethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,2-Dichloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-015
**Client Sample ID:** SCI-25B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,3-Dichloropropane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1-Chlorobutane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 2,2-Dichloropropane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 2-Butanone | NELAP | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 2-Chlorotoluene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 2-Hexanone | NELAP | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 2-Nitropropane | NELAP | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 4-Chlorotoluene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Acetone | NELAP | 58.4 | J | **31** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Acetonitrile | NELAP | 117 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Acrolein | NELAP | 117 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Acrylonitrile | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Allyl chloride | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Benzene | NELAP | 1.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Bromobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Bromochloromethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Bromodichloromethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Bromoform | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Bromomethane | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Carbon disulfide | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Carbon tetrachloride | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Chlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Chloroethane | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Chloroform | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Chloromethane | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Cyclohexanone | | 117 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Dibromochloromethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Dibromomethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Dichlorodifluoromethane | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Diisopropyl ether | | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Ethyl ether | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Ethyl methacrylate | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Ethylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Ethyl-tert-butyl ether | | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Hexachlorobutadiene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Hexachloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Iodomethane | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Isopropylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| m,p-Xylenes | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Methacrylonitrile | NELAP | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-015
**Client Sample ID:** SCI-25B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Methyl tert-butyl ether | NELAP | 2.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Methylacrylate | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Methylene chloride | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Naphthalene | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| n-Butylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| n-Heptane | | 23.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| n-Hexane | | 23.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Nitrobenzene | NELAP | 117 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| n-Propylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| o-Xylene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Pentachloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| p-Isopropyltoluene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Propionitrile | NELAP | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| sec-Butylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Styrene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| tert-Amyl methyl ether | | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| tert-Butyl alcohol | NELAP | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| tert-Butylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Tetrachloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Tetrahydrofuran | NELAP | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Toluene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| TPH - GRO (C6 - C10) | | 584 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Trichloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Trichlorofluoromethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Vinyl acetate | NELAP | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Vinyl chloride | NELAP | 2.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Xylenes, Total | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **99.6** | %REC | 1 | 12/22/2015 13:26 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **108.8** | %REC | 1 | 12/22/2015 13:26 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **106.2** | %REC | 1 | 12/22/2015 13:26 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-016
**Client Sample ID:** SCI-26A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 12:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.8** | % | 1 | 12/23/2015 20:18 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **11.2** | mg/Kg-dry | 1 | 12/24/2015 3:33 | 115163 |
| Barium | NELAP | 0.25 | | **198** | mg/Kg-dry | 1 | 12/24/2015 3:33 | 115163 |
| Cadmium | NELAP | 0.20 | J | **0.19** | mg/Kg-dry | 1 | 12/24/2015 3:33 | 115163 |
| Chromium | NELAP | 0.50 | | **19.2** | mg/Kg-dry | 1 | 12/24/2015 3:33 | 115163 |
| Lead | NELAP | 1.50 | | **14.0** | mg/Kg-dry | 1 | 12/24/2015 3:33 | 115163 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 3:33 | 115163 |
| Silver | NELAP | 0.50 | J | **0.16** | mg/Kg-dry | 1 | 12/24/2015 3:33 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.016** | mg/Kg-dry | 1 | 12/23/2015 13:12 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0429 | J | **0.026** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0429 | J | **0.023** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Chrysene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Fluoranthene | NELAP | 0.0429 | J | **0.042** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Fluorene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Pyrene | NELAP | 0.0429 | J | **0.035** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| TPH-DRO (C10 - C21) | | 15.1 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| TPH-ORO (C21 - C35) | | 15.1 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.2** | %REC | 1 | 12/23/2015 22:38 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **65.3** | %REC | 1 | 12/23/2015 22:38 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **88.3** | %REC | 1 | 12/23/2015 22:38 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,1-Dichloro-2-propanone | | 49.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 9.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-016
**Client Sample ID:** SCI-26A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 12:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,3-Dichloropropane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1-Chlorobutane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 2,2-Dichloropropane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 2-Butanone | NELAP | 49.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 2-Chlorotoluene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 2-Hexanone | NELAP | 49.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 2-Nitropropane | NELAP | 49.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 4-Chlorotoluene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 49.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Acetone | NELAP | 49.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Acetonitrile | NELAP | 98.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Acrolein | NELAP | 98.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Acrylonitrile | NELAP | 9.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Allyl chloride | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Bromobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Bromochloromethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Bromodichloromethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Bromoform | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Bromomethane | NELAP | 9.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Carbon disulfide | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Carbon tetrachloride | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Chlorobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Chloroethane | NELAP | 9.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Chloroform | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Chloromethane | NELAP | 9.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Cyclohexanone | | 98.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Dibromochloromethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Dibromomethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Dichlorodifluoromethane | NELAP | 9.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Diisopropyl ether | | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Ethyl ether | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Ethyl methacrylate | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Ethylbenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Ethyl-tert-butyl ether | | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Hexachlorobutadiene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Hexachloroethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Iodomethane | NELAP | 9.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Isopropylbenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| m,p-Xylenes | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Methacrylonitrile | NELAP | 49.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-016
**Client Sample ID:** SCI-26A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 12:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Methylacrylate | NELAP | 9.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Naphthalene | NELAP | 9.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| n-Heptane | | 19.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| n-Hexane | | 19.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Nitrobenzene | NELAP | 98.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Pentachloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Propionitrile | NELAP | 49.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Styrene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| tert-Amyl methyl ether | | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| tert-Butyl alcohol | NELAP | 49.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Tetrahydrofuran | NELAP | 49.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Toluene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| TPH - GRO (C6 - C10) | | 495 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Vinyl acetate | NELAP | 49.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.9** | %REC | 1 | 12/22/2015 13:53 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **112.7** | %REC | 1 | 12/22/2015 13:53 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **108.2** | %REC | 1 | 12/22/2015 13:53 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-017
**Client Sample ID:** SCI-26B (4-8)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 12:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.7** | % | 1 | 12/23/2015 20:18 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **6.99** | mg/Kg-dry | 1 | 12/24/2015 4:04 | 115163 |
| Barium | NELAP | 0.25 | | **132** | mg/Kg-dry | 1 | 12/24/2015 4:04 | 115163 |
| Cadmium | NELAP | 0.20 | | **0.28** | mg/Kg-dry | 1 | 12/24/2015 4:04 | 115163 |
| Chromium | NELAP | 0.49 | | **22.6** | mg/Kg-dry | 1 | 12/24/2015 4:04 | 115163 |
| Lead | NELAP | 1.47 | | **9.95** | mg/Kg-dry | 1 | 12/24/2015 4:04 | 115163 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 12/24/2015 4:04 | 115163 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 12/24/2015 4:04 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | J | **0.009** | mg/Kg-dry | 1 | 12/23/2015 13:14 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Chrysene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Fluorene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Pyrene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| TPH-DRO (C10 - C21) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| TPH-ORO (C21 - C35) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **75.4** | %REC | 1 | 12/23/2015 18:43 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **68.6** | %REC | 1 | 12/23/2015 18:43 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **88.5** | %REC | 1 | 12/23/2015 18:43 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,1-Dichloro-2-propanone | | 45.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-017 **Client Sample ID:** SCI-26B (4-8)

**Matrix:** SOLID **Collection Date:** 12/21/2015 12:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 2-Butanone | NELAP | 45.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 2-Hexanone | NELAP | 45.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 2-Nitropropane | NELAP | 45.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 45.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Acetone | NELAP | 45.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Acetonitrile | NELAP | 91.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Acrolein | NELAP | 91.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Acrylonitrile | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Bromomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Chloroethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Chloromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Cyclohexanone | | 91.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Dichlorodifluoromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Iodomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Methacrylonitrile | NELAP | 45.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-017
**Client Sample ID:** SCI-26B (4-8)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 12:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Methylacrylate | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Naphthalene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| n-Heptane | | 18.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| n-Hexane | | 18.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Nitrobenzene | NELAP | 91.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Propionitrile | NELAP | 45.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| tert-Butyl alcohol | NELAP | 45.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Tetrahydrofuran | NELAP | 45.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| TPH - GRO (C6 - C10) | | 455 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Vinyl acetate | NELAP | 45.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.4** | %REC | 1 | 12/22/2015 14:19 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.9** | %REC | 1 | 12/22/2015 14:19 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **104.9** | %REC | 1 | 12/22/2015 14:19 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-018 **Client Sample ID:** SCI-27A (0-3)

**Matrix:** SOLID **Collection Date:** 12/21/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **11.8** | % | 1 | 12/23/2015 20:19 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **4.66** | mg/Kg-dry | 1 | 12/24/2015 4:10 | 115163 |
| Barium | NELAP | 0.23 | | **67.1** | mg/Kg-dry | 1 | 12/24/2015 4:10 | 115163 |
| Cadmium | NELAP | 0.18 | | **0.44** | mg/Kg-dry | 1 | 12/24/2015 4:10 | 115163 |
| Chromium | NELAP | 0.45 | | **9.45** | mg/Kg-dry | 1 | 12/24/2015 4:10 | 115163 |
| Lead | NELAP | 1.36 | | **126** | mg/Kg-dry | 1 | 12/24/2015 4:10 | 115163 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 12/24/2015 4:10 | 115163 |
| Silver | NELAP | 0.45 | J | **0.15** | mg/Kg-dry | 1 | 12/24/2015 4:10 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.205** | mg/Kg-dry | 1 | 12/23/2015 13:16 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Anthracene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Benzo(a)anthracene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Benzo(a)pyrene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Benzo(b)fluoranthene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Benzo(k)fluoranthene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Chrysene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Fluoranthene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Fluorene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Pyrene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| TPH-DRO (C10 - C21) | | 1360 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| TPH-ORO (C21 - C35) | | 1360 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.9** | %REC | 100 | 12/25/2015 4:10 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **63.9** | %REC | 100 | 12/25/2015 4:10 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **87.8** | %REC | 100 | 12/25/2015 4:10 | 115140 |
| *Elevated reporting limit due to sample extract composition.* | | | | | | | | |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,1-Dichloro-2-propanone | | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-018 **Client Sample ID:** SCI-27A (0-3)

**Matrix:** SOLID **Collection Date:** 12/21/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 2-Butanone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 2-Hexanone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 2-Nitropropane | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Acetone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Acetonitrile | NELAP | 88.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Acrolein | NELAP | 88.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Acrylonitrile | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Bromomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Chloroethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Chloromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Cyclohexanone | | 88.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Dichlorodifluoromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Iodomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-018
**Client Sample ID:** SCI-27A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Methylacrylate | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Naphthalene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| n-Heptane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| n-Hexane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Nitrobenzene | NELAP | 88.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Propionitrile | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| tert-Butyl alcohol | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Tetrahydrofuran | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| TPH - GRO (C6 - C10) | | 441 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Vinyl acetate | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.7** | %REC | 1 | 12/22/2015 14:46 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **104.3** | %REC | 1 | 12/22/2015 14:46 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **106.5** | %REC | 1 | 12/22/2015 14:46 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-019
**Client Sample ID:** SCI-27B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.1** | % | 1 | 12/23/2015 20:19 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **10.6** | mg/Kg-dry | 1 | 12/24/2015 4:16 | 115163 |
| Barium | NELAP | 0.24 | | **95.3** | mg/Kg-dry | 1 | 12/24/2015 4:16 | 115163 |
| Cadmium | NELAP | 0.19 | | **0.29** | mg/Kg-dry | 1 | 12/24/2015 4:16 | 115163 |
| Chromium | NELAP | 0.47 | | **51.3** | mg/Kg-dry | 1 | 12/24/2015 4:16 | 115163 |
| Lead | NELAP | 1.42 | | **16.7** | mg/Kg-dry | 1 | 12/24/2015 4:16 | 115163 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/24/2015 4:16 | 115163 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 12/24/2015 4:16 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.047** | mg/Kg-dry | 1 | 12/23/2015 13:19 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Anthracene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Chrysene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Fluoranthene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Fluorene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Pyrene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| TPH-DRO (C10 - C21) | | 14.6 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| TPH-ORO (C21 - C35) | | 14.6 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **81.9** | %REC | 1 | 12/22/2015 15:52 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **73.6** | %REC | 1 | 12/22/2015 15:52 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **91.8** | %REC | 1 | 12/22/2015 15:52 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,1-Dichloro-2-propanone | | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-019
**Client Sample ID:** SCI-27B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 2-Butanone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 2-Hexanone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 2-Nitropropane | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Acetone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Acetonitrile | NELAP | 88.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Acrolein | NELAP | 88.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Acrylonitrile | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Bromomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Chloroethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Chloromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Cyclohexanone | | 88.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Dichlorodifluoromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Iodomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Methacrylonitrile | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121500-019
**Matrix:** SOLID

**Work Order:** 15121500
**Report Date:** 28-Dec-15
**Client Sample ID:** SCI-27B (16-20)
**Collection Date:** 12/21/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Methylacrylate | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Naphthalene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| n-Heptane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| n-Hexane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Nitrobenzene | NELAP | 88.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Propionitrile | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| tert-Butyl alcohol | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Tetrahydrofuran | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| TPH - GRO (C6 - C10) | | 441 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Vinyl acetate | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.7** | %REC | 1 | 12/22/2015 15:12 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.8** | %REC | 1 | 12/22/2015 15:12 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **104.6** | %REC | 1 | 12/22/2015 15:12 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-020
**Client Sample ID:** SCI-28A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.9** | % | 1 | 12/23/2015 20:19 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **10.7** | mg/Kg-dry | 1 | 12/24/2015 4:22 | 115163 |
| Barium | NELAP | 0.23 | | **163** | mg/Kg-dry | 1 | 12/24/2015 4:22 | 115163 |
| Cadmium | NELAP | 0.19 | | **0.53** | mg/Kg-dry | 1 | 12/24/2015 4:22 | 115163 |
| Chromium | NELAP | 0.46 | | **22.0** | mg/Kg-dry | 1 | 12/24/2015 4:22 | 115163 |
| Lead | NELAP | 1.39 | | **107** | mg/Kg-dry | 1 | 12/24/2015 4:22 | 115163 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 12/24/2015 4:22 | 115163 |
| Silver | NELAP | 0.46 | J | **0.23** | mg/Kg-dry | 1 | 12/24/2015 4:22 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.104** | mg/Kg-dry | 1 | 12/23/2015 13:25 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Anthracene | NELAP | 0.0410 | J | **0.029** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Benzo(a)anthracene | NELAP | 0.0410 | | **0.134** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Benzo(a)pyrene | NELAP | 0.0410 | | **0.124** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Benzo(b)fluoranthene | NELAP | 0.0410 | | **0.212** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Benzo(k)fluoranthene | NELAP | 0.0410 | | **0.0663** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Chrysene | NELAP | 0.0410 | | **0.133** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Fluoranthene | NELAP | 0.0410 | | **0.262** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Fluorene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Pyrene | NELAP | 0.0410 | | **0.230** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| TPH-DRO (C10 - C21) | | 14.5 | J | **8.1** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| TPH-ORO (C21 - C35) | | 14.5 | J | **8.4** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **75.6** | %REC | 1 | 12/24/2015 6:38 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.7** | %REC | 1 | 12/24/2015 6:38 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **84.6** | %REC | 1 | 12/24/2015 6:38 | 115104 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,1-Dichloro-2-propanone | | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-020
**Client Sample ID:** SCI-28A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 2-Butanone | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 2-Hexanone | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 2-Nitropropane | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Acetone | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Acetonitrile | NELAP | 93.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Acrolein | NELAP | 93.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Acrylonitrile | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Bromomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Chloroethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Chloromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Cyclohexanone | | 93.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Dichlorodifluoromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Iodomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Methacrylonitrile | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-020
**Client Sample ID:** SCI-28A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Methylacrylate | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Methylene chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Naphthalene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| n-Heptane | | 18.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| n-Hexane | | 18.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Nitrobenzene | NELAP | 93.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Propionitrile | NELAP | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| tert-Butyl alcohol | NELAP | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Tetrahydrofuran | NELAP | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| TPH - GRO (C6 - C10) | | 467 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Vinyl acetate | NELAP | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.9** | %REC | 1 | 12/22/2015 15:38 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **108.1** | %REC | 1 | 12/22/2015 15:38 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **106.6** | %REC | 1 | 12/22/2015 15:38 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-021
**Client Sample ID:** SCI-28B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.4** | % | 1 | 12/23/2015 20:20 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **8.46** | mg/Kg-dry | 1 | 12/24/2015 4:28 | 115163 |
| Barium | NELAP | 0.24 | | **200** | mg/Kg-dry | 1 | 12/24/2015 4:28 | 115163 |
| Cadmium | NELAP | 0.19 | | **0.29** | mg/Kg-dry | 1 | 12/24/2015 4:28 | 115163 |
| Chromium | NELAP | 0.47 | | **23.7** | mg/Kg-dry | 1 | 12/24/2015 4:28 | 115163 |
| Lead | NELAP | 1.42 | | **10.2** | mg/Kg-dry | 1 | 12/24/2015 4:28 | 115163 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/24/2015 4:28 | 115163 |
| Silver | NELAP | 0.47 | J | **0.19** | mg/Kg-dry | 1 | 12/24/2015 4:28 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.026** | mg/Kg-dry | 1 | 12/23/2015 13:28 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Chrysene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Fluorene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Pyrene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| TPH-DRO (C10 - C21) | | 14.8 | J | **7.4** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| TPH-ORO (C21 - C35) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **80.8** | %REC | 1 | 12/22/2015 16:22 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **75.0** | %REC | 1 | 12/22/2015 16:22 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **91.7** | %REC | 1 | 12/22/2015 16:22 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,1-Dichloro-2-propanone | | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,2-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-021
**Client Sample ID:** SCI-28B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 2-Butanone | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 2-Hexanone | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 2-Nitropropane | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Acetone | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Acetonitrile | NELAP | 90.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Acrolein | NELAP | 90.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Acrylonitrile | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Bromomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Chloroethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Chloromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Cyclohexanone | | 90.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Dichlorodifluoromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Iodomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Methacrylonitrile | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121500-021
**Matrix:** SOLID

**Work Order:** 15121500
**Report Date:** 28-Dec-15
**Client Sample ID:** SCI-28B (16-20)
**Collection Date:** 12/21/2015 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Methylacrylate | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Naphthalene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| n-Heptane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| n-Hexane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Nitrobenzene | NELAP | 90.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Propionitrile | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| tert-Butyl alcohol | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Tetrahydrofuran | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| TPH - GRO (C6 - C10) | | 451 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Vinyl acetate | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.3** | %REC | 1 | 12/22/2015 16:05 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.9** | %REC | 1 | 12/22/2015 16:05 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **104.1** | %REC | 1 | 12/22/2015 16:05 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-022
**Client Sample ID:** SCI-27D (16-20)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.1** | % | 1 | 12/23/2015 20:20 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **6.32** | mg/Kg-dry | 1 | 12/24/2015 4:34 | 115163 |
| Barium | NELAP | 0.25 | | **89.1** | mg/Kg-dry | 1 | 12/24/2015 4:34 | 115163 |
| Cadmium | NELAP | 0.20 | | **0.26** | mg/Kg-dry | 1 | 12/24/2015 4:34 | 115163 |
| Chromium | NELAP | 0.49 | | **22.2** | mg/Kg-dry | 1 | 12/24/2015 4:34 | 115163 |
| Lead | NELAP | 1.47 | | **12.4** | mg/Kg-dry | 1 | 12/24/2015 4:34 | 115163 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 12/24/2015 4:34 | 115163 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 12/24/2015 4:34 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.041** | mg/Kg-dry | 1 | 12/23/2015 13:34 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Anthracene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Chrysene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Fluoranthene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Fluorene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Pyrene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| TPH-DRO (C10 - C21) | | 14.1 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| TPH-ORO (C21 - C35) | | 14.1 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **74.7** | %REC | 1 | 12/23/2015 19:13 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **68.7** | %REC | 1 | 12/23/2015 19:13 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **88.0** | %REC | 1 | 12/23/2015 19:13 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,1-Dichloro-2-propanone | | 40.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,1-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,1-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,1-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 8.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,2,3-Trimethylbenzene | | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,2-Dibromoethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,2-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-022
**Client Sample ID:** SCI-27D (16-20)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,3-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1-Chlorobutane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 2,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 2-Butanone | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 2-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 2-Hexanone | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 2-Nitropropane | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 4-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Acetone | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Acetonitrile | NELAP | 81.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Acrolein | NELAP | 81.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Acrylonitrile | NELAP | 8.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Allyl chloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Bromobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Bromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Bromodichloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Bromoform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Bromomethane | NELAP | 8.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Carbon disulfide | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Carbon tetrachloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Chlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Chloroethane | NELAP | 8.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Chloroform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Chloromethane | NELAP | 8.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 3.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Cyclohexanone | | 81.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Dibromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Dibromomethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Dichlorodifluoromethane | NELAP | 8.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Diisopropyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Ethyl ether | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Ethyl methacrylate | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Ethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Ethyl-tert-butyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Hexachlorobutadiene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Hexachloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Iodomethane | NELAP | 8.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Isopropylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| m,p-Xylenes | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Methacrylonitrile | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121500-022
**Matrix:** SOLID

**Work Order:** 15121500
**Report Date:** 28-Dec-15
**Client Sample ID:** SCI-27D (16-20)
**Collection Date:** 12/21/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Methyl tert-butyl ether | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Methylacrylate | NELAP | 8.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Methylene chloride | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Naphthalene | NELAP | 8.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| n-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| n-Heptane | | 16.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| n-Hexane | | 16.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Nitrobenzene | NELAP | 81.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| n-Propylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| o-Xylene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Pentachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| p-Isopropyltoluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Propionitrile | NELAP | 40.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| sec-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Styrene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| tert-Amyl methyl ether | | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| tert-Butyl alcohol | NELAP | 40.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| tert-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Tetrachloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Tetrahydrofuran | NELAP | 40.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Toluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| TPH - GRO (C6 - C10) | | 407 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 3.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Trichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Trichlorofluoromethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Vinyl acetate | NELAP | 40.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Vinyl chloride | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Xylenes, Total | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **102.7** | %REC | 1 | 12/22/2015 16:31 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.3** | %REC | 1 | 12/22/2015 16:31 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **105.5** | %REC | 1 | 12/22/2015 16:31 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-023
**Client Sample ID:** SCI-29A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.0** | % | 1 | 12/23/2015 20:21 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **10.1** | mg/Kg-dry | 1 | 12/24/2015 4:40 | 115163 |
| Barium | NELAP | 0.24 | | **272** | mg/Kg-dry | 1 | 12/24/2015 4:40 | 115163 |
| Cadmium | NELAP | 0.19 | | **1.75** | mg/Kg-dry | 1 | 12/24/2015 4:40 | 115163 |
| Chromium | NELAP | 0.47 | | **21.3** | mg/Kg-dry | 1 | 12/24/2015 4:40 | 115163 |
| Lead | NELAP | 1.42 | | **250** | mg/Kg-dry | 1 | 12/24/2015 4:40 | 115163 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/24/2015 4:40 | 115163 |
| Silver | NELAP | 0.47 | J | **0.37** | mg/Kg-dry | 1 | 12/24/2015 4:40 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.146** | mg/Kg-dry | 1 | 12/23/2015 13:37 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 2.03 | J | **1.0** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Anthracene | NELAP | 2.03 | | **2.46** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Benzo(a)anthracene | NELAP | 2.03 | | **7.55** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Benzo(a)pyrene | NELAP | 2.03 | | **6.48** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Benzo(b)fluoranthene | NELAP | 2.03 | | **9.24** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Benzo(k)fluoranthene | NELAP | 2.03 | | **2.78** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Chrysene | NELAP | 2.03 | | **6.73** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 2.03 | | **ND** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Fluoranthene | NELAP | 2.03 | | **16.6** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Fluorene | NELAP | 2.03 | | **ND** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Pyrene | NELAP | 2.03 | | **14.3** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| TPH-DRO (C10 - C21) | | 715 | | **ND** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| TPH-ORO (C21 - C35) | | 715 | | **ND** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **85.8** | %REC | 50 | 12/25/2015 5:10 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **73.9** | %REC | 50 | 12/25/2015 5:10 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **101.8** | %REC | 50 | 12/25/2015 5:10 | 115140 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,1-Dichloro-2-propanone | | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-023 **Client Sample ID:** SCI-29A (0-3)

**Matrix:** SOLID **Collection Date:** 12/21/2015 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 2-Butanone | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 2-Hexanone | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 2-Nitropropane | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Acetone | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Acetonitrile | NELAP | 90.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Acrolein | NELAP | 90.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Acrylonitrile | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Bromomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Chloroethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Chloromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Cyclohexanone | | 90.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Dichlorodifluoromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Iodomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-023
**Client Sample ID:** SCI-29A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Methylacrylate | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Naphthalene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| n-Heptane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| n-Hexane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Nitrobenzene | NELAP | 90.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Propionitrile | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| tert-Butyl alcohol | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Tetrahydrofuran | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Toluene | NELAP | 4.5 | J | **0.9** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| TPH - GRO (C6 - C10) | | 451 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Vinyl acetate | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.2** | %REC | 1 | 12/22/2015 16:58 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **104.0** | %REC | 1 | 12/22/2015 16:58 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **108.9** | %REC | 1 | 12/22/2015 16:58 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-024 **Client Sample ID:** SCI-29B (4-8)

**Matrix:** SOLID **Collection Date:** 12/21/2015 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.0** | % | 1 | 12/23/2015 20:21 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **12.1** | mg/Kg-dry | 1 | 12/23/2015 21:06 | 115118 |
| Barium | NELAP | 0.24 | | **309** | mg/Kg-dry | 1 | 12/23/2015 21:06 | 115118 |
| Cadmium | NELAP | 0.19 | | **3.70** | mg/Kg-dry | 1 | 12/23/2015 21:06 | 115118 |
| Chromium | NELAP | 0.48 | | **23.7** | mg/Kg-dry | 1 | 12/23/2015 21:06 | 115118 |
| Lead | NELAP | 1.44 | | **787** | mg/Kg-dry | 1 | 12/23/2015 21:06 | 115118 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/23/2015 21:06 | 115118 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/23/2015 21:06 | 115118 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.508** | mg/Kg-dry | 1 | 12/23/2015 13:39 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 2.12 | | **ND** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Anthracene | NELAP | 2.12 | | **2.37** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Benzo(a)anthracene | NELAP | 2.12 | | **7.89** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Benzo(a)pyrene | NELAP | 2.12 | | **6.66** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Benzo(b)fluoranthene | NELAP | 2.12 | | **9.32** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Benzo(k)fluoranthene | NELAP | 2.12 | | **3.12** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Chrysene | NELAP | 2.12 | | **7.41** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 2.12 | | **ND** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Fluoranthene | NELAP | 2.12 | | **17.0** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Fluorene | NELAP | 2.12 | | **ND** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Pyrene | NELAP | 2.12 | | **15.0** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| TPH-DRO (C10 - C21) | | 749 | S | **ND** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| TPH-ORO (C21 - C35) | | 749 | | **ND** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **67.9** | %REC | 50 | 12/25/2015 2:40 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **61.9** | %REC | 50 | 12/25/2015 2:40 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **91.8** | %REC | 50 | 12/25/2015 2:40 | 115140 |

*MS and MSD did not recover within control limits due to sample dilution.*
*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,1-Dichloro-2-propanone | | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-024 **Client Sample ID:** SCI-29B (4-8)

**Matrix:** SOLID **Collection Date:** 12/21/2015 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,2-Dichloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 2-Butanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 2-Hexanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 2-Nitropropane | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 4-Methyl-2-pentanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Acetone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Acetonitrile | NELAP | 91.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Acrolein | NELAP | 91.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Cyclohexanone | | 91.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Iodomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-024
**Client Sample ID:** SCI-29B (4-8)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| m,p-Xylenes | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Methacrylonitrile | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| n-Heptane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| n-Hexane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Nitrobenzene | NELAP | 91.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Propionitrile | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| tert-Butyl alcohol | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Tetrahydrofuran | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| TPH - GRO (C6 - C10) | | 457 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Vinyl acetate | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.2** | %REC | 1 | 12/23/2015 13:43 | 115190 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | S | **126.5** | %REC | 1 | 12/23/2015 13:43 | 115190 |
| Surr: Toluene-d8 | | 86-116 | | **105.3** | %REC | 1 | 12/23/2015 13:43 | 115190 |

*Surrogate recovery is outside QC limits due to matrix interference.*

# Quality Control Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

## EPA SW846 3550C, 5035A, ASTM D2974

**Batch** R213088 **SampType:** LCS Units **%**
SampID: LCS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 12/23/2015 |

**Batch** R213088 **SampType:** LCSQC Units **%**
SampID: LCSQC

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 12/23/2015 |

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115118 **SampType:** MBLK Units **mg/Kg-dry**
SampID: MBLK-115118

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Barium | 0.25 | | **< 0.25** | 0.2500 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Silver | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 12/23/2015 |

**Batch** 115118 **SampType:** LCS Units **mg/Kg-dry**
SampID: LCS-115118

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **48.4** | 50.00 | 0 | 96.9 | 85 | 115 | 12/23/2015 |
| Barium | 0.25 | | **199** | 200.0 | 0 | 99.7 | 85 | 115 | 12/23/2015 |
| Cadmium | 0.20 | | **4.95** | 5.000 | 0 | 99.0 | 85 | 115 | 12/23/2015 |
| Chromium | 0.50 | | **21.0** | 20.00 | 0 | 104.9 | 85 | 115 | 12/23/2015 |
| Lead | 1.50 | | **52.2** | 50.00 | 0 | 104.3 | 85 | 115 | 12/23/2015 |
| Selenium | 4.00 | | **49.0** | 50.00 | 0 | 98.1 | 85 | 115 | 12/23/2015 |
| Silver | 0.50 | | **4.79** | 5.000 | 0 | 95.8 | 85 | 115 | 12/23/2015 |

**Batch** 115118 **SampType:** MS Units **mg/Kg-dry**
SampID: 15121426-004AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.31 | | **50.1** | 46.30 | 9.315 | 88.1 | 75 | 125 | 12/23/2015 |
| Barium | 0.23 | | **251** | 185.2 | 70.06 | 97.6 | 75 | 125 | 12/23/2015 |
| Cadmium | 0.19 | | **8.48** | 4.630 | 2.944 | 119.6 | 75 | 125 | 12/23/2015 |
| Chromium | 0.46 | | **43.9** | 18.52 | 28.06 | 85.5 | 75 | 125 | 12/23/2015 |
| Selenium | 3.70 | | **41.9** | 46.30 | 0 | 90.5 | 75 | 125 | 12/23/2015 |
| Silver | 0.46 | | **4.39** | 4.630 | 0 | 94.8 | 75 | 125 | 12/23/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115118 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**

SampID: 15121426-004AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.31 | | **49.7** | 46.30 | 9.315 | 87.3 | 50.08 | 0.74 | 12/23/2015 |
| Barium | 0.23 | | **248** | 185.2 | 70.06 | 96.0 | 250.7 | 1.15 | 12/23/2015 |
| Cadmium | 0.19 | | **7.55** | 4.630 | 2.944 | 99.4 | 8.481 | 11.67 | 12/23/2015 |
| Chromium | 0.46 | | **43.7** | 18.52 | 28.06 | 84.2 | 43.89 | 0.53 | 12/23/2015 |
| Selenium | 3.70 | | **42.4** | 46.30 | 0 | 91.5 | 41.92 | 1.08 | 12/23/2015 |
| Silver | 0.46 | | **4.34** | 4.630 | 0 | 93.8 | 4.389 | 1.06 | 12/23/2015 |

**Batch** 115163 **SampType:** MBLK Units **mg/Kg-dry**

SampID: MBLK-115163

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Barium | 0.25 | | **< 0.25** | 0.2500 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Silver | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 12/24/2015 |

**Batch** 115163 **SampType:** LCS Units **mg/Kg-dry**

SampID: LCS-115163

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **48.7** | 50.00 | 0 | 97.4 | 85 | 115 | 12/24/2015 |
| Barium | 0.25 | | **195** | 200.0 | 0 | 97.5 | 85 | 115 | 12/24/2015 |
| Cadmium | 0.20 | | **5.03** | 5.000 | 0 | 100.6 | 85 | 115 | 12/24/2015 |
| Chromium | 0.50 | | **21.0** | 20.00 | 0 | 105.0 | 85 | 115 | 12/24/2015 |
| Lead | 1.50 | | **53.2** | 50.00 | 0 | 106.4 | 85 | 115 | 12/24/2015 |
| Selenium | 4.00 | | **51.2** | 50.00 | 0 | 102.4 | 85 | 115 | 12/24/2015 |
| Silver | 0.50 | | **4.89** | 5.000 | 0 | 97.8 | 85 | 115 | 12/24/2015 |

**Batch** 115163 **SampType:** MS Units **mg/Kg-dry**

SampID: 15121500-006AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **58.3** | 50.00 | 9.570 | 97.5 | 75 | 125 | 12/24/2015 |
| Barium | 0.25 | | **375** | 200.0 | 177.4 | 99.0 | 75 | 125 | 12/24/2015 |
| Cadmium | 0.20 | | **5.79** | 5.000 | 0.8500 | 98.8 | 75 | 125 | 12/24/2015 |
| Chromium | 0.50 | | **40.9** | 20.00 | 19.82 | 105.3 | 75 | 125 | 12/24/2015 |
| Selenium | 4.00 | | **48.0** | 50.00 | 0 | 95.9 | 75 | 125 | 12/24/2015 |
| Silver | 0.50 | | **5.01** | 5.000 | 0.2700 | 94.8 | 75 | 125 | 12/24/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 3050B, 6010B, METALS BY ICP

**Batch 115163** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **20**

SampID: 15121500-006AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **57.0** | 50.00 | 9.570 | 94.8 | 58.34 | 2.38 | 12/24/2015 |
| Barium | 0.25 | | **364** | 200.0 | 177.4 | 93.0 | 375.3 | 3.19 | 12/24/2015 |
| Cadmium | 0.20 | | **5.64** | 5.000 | 0.8500 | 95.8 | 5.790 | 2.62 | 12/24/2015 |
| Chromium | 0.50 | | **40.9** | 20.00 | 19.82 | 105.6 | 40.88 | 0.12 | 12/24/2015 |
| Selenium | 4.00 | | **45.4** | 50.00 | 0 | 90.9 | 47.97 | 5.44 | 12/24/2015 |
| Silver | 0.50 | | **4.85** | 5.000 | 0.2700 | 91.6 | 5.010 | 3.25 | 12/24/2015 |

**Batch 115163** **SampType: MS** Units **mg/Kg-dry**

SampID: 15121500-016AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **59.6** | 50.00 | 11.21 | 96.9 | 75 | 125 | 12/24/2015 |
| Barium | 0.25 | | **403** | 200.0 | 198.3 | 102.2 | 75 | 125 | 12/24/2015 |
| Cadmium | 0.20 | | **5.12** | 5.000 | 0.1900 | 98.6 | 75 | 125 | 12/24/2015 |
| Chromium | 0.50 | | **40.2** | 20.00 | 19.24 | 104.8 | 75 | 125 | 12/24/2015 |
| Lead | 1.50 | | **65.5** | 50.00 | 14.03 | 103.0 | 75 | 125 | 12/24/2015 |
| Selenium | 4.00 | | **47.2** | 50.00 | 0 | 94.4 | 75 | 125 | 12/24/2015 |
| Silver | 0.50 | | **4.85** | 5.000 | 0.1600 | 93.8 | 75 | 125 | 12/24/2015 |

**Batch 115163** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **20**

SampID: 15121500-016AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **59.3** | 50.00 | 11.21 | 96.2 | 59.64 | 0.55 | 12/24/2015 |
| Barium | 0.25 | | **409** | 200.0 | 198.3 | 105.6 | 402.7 | 1.65 | 12/24/2015 |
| Cadmium | 0.20 | | **5.13** | 5.000 | 0.1900 | 98.8 | 5.120 | 0.20 | 12/24/2015 |
| Chromium | 0.50 | | **40.6** | 20.00 | 19.24 | 106.8 | 40.21 | 0.97 | 12/24/2015 |
| Lead | 1.50 | | **67.6** | 50.00 | 14.03 | 107.1 | 65.54 | 3.05 | 12/24/2015 |
| Selenium | 4.00 | | **47.3** | 50.00 | 0 | 94.5 | 47.22 | 0.11 | 12/24/2015 |
| Silver | 0.50 | | **4.80** | 5.000 | 0.1600 | 92.8 | 4.850 | 1.04 | 12/24/2015 |

**Batch 115232** **SampType: MBLK** Units **mg/Kg-dry**

SampID: MBLK-115232

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 12/28/2015 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 12/28/2015 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 12/28/2015 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 12/28/2015 |

**Batch 115232** **SampType: LCS** Units **mg/Kg-dry**

SampID: LCS-115232

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **48.5** | 50.00 | 0 | 97.0 | 85 | 115 | 12/28/2015 |
| Cadmium | 0.20 | | **4.92** | 5.000 | 0 | 98.4 | 85 | 115 | 12/28/2015 |
| Lead | 1.50 | | **51.8** | 50.00 | 0 | 103.7 | 85 | 115 | 12/28/2015 |
| Selenium | 4.00 | | **48.4** | 50.00 | 0 | 96.8 | 85 | 115 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115232 **SampType:** MS Units **mg/Kg-dry**

SampID: 15121500-006AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.50 | | **265** | 50.00 | 226.9 | 76.8 | 75 | 125 | 12/28/2015 |

**Batch** 115232 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**

SampID: 15121500-006AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.50 | | **266** | 50.00 | 226.9 | 78.6 | 265.3 | 0.34 | 12/28/2015 |

## SW-846 7471B

**Batch** 115165 **SampType:** MBLK Units **mg/Kg**

SampID: MBLK-115165

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **< 0.010** | 0.01000 | 0 | 0 | -100 | 100 | 12/23/2015 |

**Batch** 115165 **SampType:** LCS Units **mg/Kg**

SampID: LCS-115165

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.265** | 0.2500 | 0 | 106.0 | 85 | 115 | 12/23/2015 |

**Batch** 115165 **SampType:** MS Units **mg/Kg-dry**

SampID: 15121421-013AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.366** | 0.3022 | 0.02452 | 113.2 | 75 | 125 | 12/23/2015 |

**Batch** 115165 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **15**

SampID: 15121421-013AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.351** | 0.3022 | 0.02452 | 108.1 | 0.3665 | 4.28 | 12/23/2015 |

**Batch** 115165 **SampType:** MS Units **mg/Kg**

SampID: 15121540-001AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.317** | 0.2500 | 0.03180 | 114.1 | 75 | 125 | 12/23/2015 |

**Batch** 115165 **SampType:** MSD Units **mg/Kg** RPD Limit **15**

SampID: 15121540-001AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.303** | 0.2500 | 0.03180 | 108.3 | 0.3171 | 4.69 | 12/23/2015 |

# Quality Control Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

## SW-846 7471B

**Batch 115173** **SampType: MBLK** Units **mg/Kg**
SampID: MBLK-115173

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **< 0.010** | 0.01000 | 0 | 0 | -100 | 100 | 12/23/2015 |

**Batch 115173** **SampType: LCS** Units **mg/Kg**
SampID: LCS-115173

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.249** | 0.2500 | 0 | 99.7 | 85 | 115 | 12/23/2015 |

**Batch 115173** **SampType: MS** Units **mg/Kg-dry**
SampID: 15121500-013AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.378** | 0.2963 | 0.03683 | 115.3 | 75 | 125 | 12/23/2015 |

**Batch 115173** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**
SampID: 15121500-013AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.368** | 0.2963 | 0.03683 | 111.9 | 0.3784 | 2.70 | 12/23/2015 |

**Batch 115173** **SampType: MS** Units **mg/Kg-dry**
SampID: 15121500-021AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.370** | 0.2918 | 0.02600 | 117.8 | 75 | 125 | 12/23/2015 |

**Batch 115173** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**
SampID: 15121500-021AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.374** | 0.2918 | 0.02600 | 119.2 | 0.3697 | 1.10 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115104** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115104

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Anthracene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(a)anthracene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(a)pyrene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(b)fluoranthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(k)fluoranthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Chrysene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Dibenzo(a,h)anthracene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Fluoranthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Fluorene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Pyrene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| TPH-DRO (C10 - C21) | 12.0 | J | **6.2** | | | | | | 12/21/2015 |
| TPH-ORO (C21 - C35) | 12.0 | | **ND** | | | | | | 12/21/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.716** | 0.8350 | | 85.7 | 42.6 | 97.2 | 12/21/2015 |
| Surr: Nitrobenzene-d5 | | | **0.643** | 0.8350 | | 77.0 | 16.7 | 118 | 12/21/2015 |
| Surr: p-Terphenyl-d14 | | | **0.812** | 0.8350 | | 97.3 | 50.1 | 111 | 12/21/2015 |

**Batch 115104** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115104

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **1.12** | 1.670 | 0 | 67.1 | 56.4 | 104 | 12/21/2015 |
| Anthracene | 0.0340 | | **1.10** | 1.670 | 0 | 66.0 | 55.9 | 101 | 12/21/2015 |
| Benzo(a)anthracene | 0.0340 | | **1.13** | 1.670 | 0 | 67.5 | 51.7 | 107 | 12/21/2015 |
| Benzo(a)pyrene | 0.0340 | | **1.23** | 1.670 | 0 | 73.7 | 57.2 | 114 | 12/21/2015 |
| Benzo(b)fluoranthene | 0.0340 | | **1.22** | 1.670 | 0 | 73.2 | 45.3 | 116 | 12/21/2015 |
| Benzo(k)fluoranthene | 0.0340 | | **1.33** | 1.670 | 0 | 79.7 | 58.2 | 114 | 12/21/2015 |
| Chrysene | 0.0340 | | **1.22** | 1.670 | 0 | 73.3 | 58.9 | 102 | 12/21/2015 |
| Dibenzo(a,h)anthracene | 0.0340 | | **0.964** | 1.670 | 0 | 57.7 | 48.9 | 123 | 12/21/2015 |
| Fluoranthene | 0.0340 | | **1.17** | 1.670 | 0 | 69.9 | 54.9 | 108 | 12/21/2015 |
| Fluorene | 0.0340 | | **1.08** | 1.670 | 0 | 65.0 | 58 | 101 | 12/21/2015 |
| Pyrene | 0.0340 | | **1.19** | 1.670 | 0 | 71.2 | 53.4 | 107 | 12/21/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.524** | 0.8350 | | 62.8 | 42.6 | 97.2 | 12/21/2015 |
| Surr: Nitrobenzene-d5 | | | **0.660** | 0.8350 | | 79.1 | 16.7 | 118 | 12/21/2015 |
| Surr: p-Terphenyl-d14 | | | **0.629** | 0.8350 | | 75.3 | 50.1 | 111 | 12/21/2015 |

**Batch 115104** **SampType: LCSG** Units **mg/Kg**

SampID: LCSDRO-115104

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 12.0 | | **23.5** | 33.40 | 0 | 70.5 | 53.7 | 103 | 12/21/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.619** | 0.8350 | | 74.1 | 42.6 | 97.2 | 12/21/2015 |
| Surr: Nitrobenzene-d5 | | | **0.539** | 0.8350 | | 64.6 | 16.7 | 118 | 12/21/2015 |
| Surr: p-Terphenyl-d14 | | | **0.694** | 0.8350 | | 83.1 | 50.1 | 111 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115104** **SampType: MS** Units **mg/Kg-dry**

SampID: 15121344-010AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 144 | S | **340** | 39.98 | 367.9 | -68.6 | 34.5 | 160 | 12/22/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.682** | 0.9996 | | 68.3 | 12 | 133 | 12/22/2015 |
| Surr: Nitrobenzene-d5 | | | **0.615** | 0.9996 | | 61.5 | 30.9 | 115 | 12/22/2015 |
| Surr: p-Terphenyl-d14 | | | **0.874** | 0.9996 | | 87.4 | 31.5 | 137 | 12/22/2015 |

**Batch 115104** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **30**

SampID: 15121344-010AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 144 | SR | **247** | 40.00 | 367.9 | -303.2 | 340.5 | 31.98 | 12/22/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.647** | 0.9999 | | 64.7 | | | 12/22/2015 |
| Surr: Nitrobenzene-d5 | | | **0.603** | 0.9999 | | 60.3 | | | 12/22/2015 |
| Surr: p-Terphenyl-d14 | | | **0.858** | 0.9999 | | 85.8 | | | 12/22/2015 |

**Batch 115140** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115140

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Anthracene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Benzo(a)anthracene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Benzo(a)pyrene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Benzo(b)fluoranthene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Benzo(k)fluoranthene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Chrysene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Dibenzo(a,h)anthracene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Fluoranthene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Fluorene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Pyrene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| TPH-DRO (C10 - C21) | 12.0 | J | **6.2** | | | | | | 12/22/2015 |
| TPH-ORO (C21 - C35) | 12.0 | | **ND** | | | | | | 12/22/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.726** | 0.8350 | | 86.9 | 42.6 | 97.2 | 12/22/2015 |
| Surr: Nitrobenzene-d5 | | | **0.658** | 0.8350 | | 78.8 | 16.7 | 118 | 12/22/2015 |
| Surr: p-Terphenyl-d14 | | | **0.803** | 0.8350 | | 96.2 | 50.1 | 111 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115140** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115140

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **1.50** | 1.670 | 0 | 89.6 | 56.4 | 104 | 12/22/2015 |
| Anthracene | 0.0340 | | **1.36** | 1.670 | 0 | 81.7 | 55.9 | 101 | 12/22/2015 |
| Benzo(a)anthracene | 0.0340 | | **1.40** | 1.670 | 0 | 83.7 | 51.7 | 107 | 12/22/2015 |
| Benzo(a)pyrene | 0.0340 | | **1.48** | 1.670 | 0 | 88.5 | 57.2 | 114 | 12/22/2015 |
| Benzo(b)fluoranthene | 0.0340 | | **1.55** | 1.670 | 0 | 92.7 | 45.3 | 116 | 12/22/2015 |
| Benzo(k)fluoranthene | 0.0340 | | **1.42** | 1.670 | 0 | 85.2 | 58.2 | 114 | 12/22/2015 |
| Chrysene | 0.0340 | | **1.48** | 1.670 | 0 | 88.4 | 58.9 | 102 | 12/22/2015 |
| Dibenzo(a,h)anthracene | 0.0340 | | **1.54** | 1.670 | 0 | 92.5 | 48.9 | 123 | 12/22/2015 |
| Fluoranthene | 0.0340 | | **1.41** | 1.670 | 0 | 84.5 | 54.9 | 108 | 12/22/2015 |
| Fluorene | 0.0340 | | **1.44** | 1.670 | 0 | 86.4 | 58 | 101 | 12/22/2015 |
| Pyrene | 0.0340 | | **1.46** | 1.670 | 0 | 87.5 | 53.4 | 107 | 12/22/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.719** | 0.8350 | | 86.1 | 42.6 | 97.2 | 12/22/2015 |
| Surr: Nitrobenzene-d5 | | | **0.919** | 0.8350 | | 110.1 | 16.7 | 118 | 12/22/2015 |
| Surr: p-Terphenyl-d14 | | | **0.755** | 0.8350 | | 90.4 | 50.1 | 111 | 12/22/2015 |

**Batch 115140** **SampType: LCSG** Units **mg/Kg**

SampID: LCSDRO-115140

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 12.0 | | **24.6** | 33.40 | 0 | 73.7 | 53.7 | 103 | 12/22/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.657** | 0.8350 | | 78.7 | 42.6 | 97.2 | 12/22/2015 |
| Surr: Nitrobenzene-d5 | | | **0.623** | 0.8350 | | 74.6 | 16.7 | 118 | 12/22/2015 |
| Surr: p-Terphenyl-d14 | | | **0.719** | 0.8350 | | 86.1 | 50.1 | 111 | 12/22/2015 |

**Batch 115140** **SampType: MS** Units **mg/Kg-dry**

SampID: 15121500-024AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 758 | S | **ND** | 42.18 | 0 | 0 | 34.5 | 160 | 12/25/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.631** | 1.054 | | 59.9 | 12 | 133 | 12/25/2015 |
| Surr: Nitrobenzene-d5 | | | **0.589** | 1.054 | | 55.9 | 30.9 | 115 | 12/25/2015 |
| Surr: p-Terphenyl-d14 | | | **0.842** | 1.054 | | 79.8 | 31.5 | 137 | 12/25/2015 |

**Batch 115140** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **30**

SampID: 15121500-024AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 757 | S | **ND** | 42.15 | 0 | 0 | 0 | 0.00 | 12/25/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.547** | 1.054 | | 51.9 | | | 12/25/2015 |
| Surr: Nitrobenzene-d5 | | | **0.568** | 1.054 | | 53.9 | | | 12/25/2015 |
| Surr: p-Terphenyl-d14 | | | **0.778** | 1.054 | | 73.9 | | | 12/25/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115254** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-R151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,3-Trichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Butanone | 25.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Chloroethyl vinyl ether | 20.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Hexanone | 25.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/28/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 4-Methyl-2-pentanone | 25.0 | | **ND** | | | | | | 12/28/2015 |
| Acetone | 25.0 | | **ND** | | | | | | 12/28/2015 |
| Acetonitrile | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/28/2015 |
| Acrylonitrile | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Benzene | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115254** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-R151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Chloromethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Chloroprene | 20.0 | | **ND** | | | | | | 12/28/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| cis-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Cyclohexanone | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Diisopropyl ether | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl acetate | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl-tert-butyl ether | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Hexachloroethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Iodomethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Methacrylonitrile | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/28/2015 |
| n-Butyl acetate | 25.0 | | **ND** | | | | | | 12/28/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| Nitrobenzene | 50.0 | | **ND** | | | | | | 12/28/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Pentachloroethane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/28/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| tert-Amyl methyl ether | 2.0 | | **ND** | | | | | | 12/28/2015 |
| tert-Butyl alcohol | 25.0 | | **ND** | | | | | | 12/28/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Tetrahydrofuran | 20.0 | | **ND** | | | | | | 12/28/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| trans-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115254** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-R151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Vinyl acetate | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **51.5** | 50.00 | | 103.0 | 74.7 | 129 | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.5** | 50.00 | | 99.1 | 86 | 119 | 12/28/2015 |
| Surr: Toluene-d8 | | | **50.3** | 50.00 | | 100.5 | 84.3 | 114 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115254** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-R151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 50.06 | 5.01 | 12/28/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 47.79 | 11.29 | 12/28/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 51.09 | 0.22 | 12/28/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **53.2** | 50.00 | 0 | 106.4 | 47.18 | 11.96 | 12/28/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 50.17 | 1.13 | 12/28/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **128** | 125.0 | 0 | 102.4 | 135.2 | 5.50 | 12/28/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 49.10 | 7.98 | 12/28/2015 |
| 1,1-Dichloroethene | 5.0 | | **57.2** | 50.00 | 0 | 114.3 | 49.85 | 13.64 | 12/28/2015 |
| 1,1-Dichloropropene | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 47.89 | 13.31 | 12/28/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **55.0** | 50.00 | 0 | 109.9 | 51.33 | 6.83 | 12/28/2015 |
| 1,2,3-Trichloropropane | 5.0 | | **48.3** | 50.00 | 0 | 96.5 | 47.58 | 1.44 | 12/28/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 47.75 | 8.14 | 12/28/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 49.40 | 9.45 | 12/28/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **54.8** | 50.00 | 0 | 109.5 | 50.23 | 8.61 | 12/28/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.9** | 50.00 | 0 | 95.7 | 48.48 | 1.29 | 12/28/2015 |
| 1,2-Dibromoethane | 5.0 | | **50.9** | 50.00 | 0 | 101.9 | 50.49 | 0.87 | 12/28/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 47.58 | 7.39 | 12/28/2015 |
| 1,2-Dichloroethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 50.56 | 1.08 | 12/28/2015 |
| 1,2-Dichloropropane | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 49.66 | 4.76 | 12/28/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **55.5** | 50.00 | 0 | 110.9 | 50.17 | 10.03 | 12/28/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 48.58 | 7.64 | 12/28/2015 |
| 1,3-Dichloropropane | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 50.04 | 1.59 | 12/28/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 46.44 | 8.40 | 12/28/2015 |
| 1-Chlorobutane | 5.0 | | **53.1** | 50.00 | 0 | 106.1 | 46.79 | 12.58 | 12/28/2015 |
| 2,2-Dichloropropane | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 48.14 | 14.20 | 12/28/2015 |
| 2-Butanone | 25.0 | | **119** | 125.0 | 0 | 95.4 | 119.6 | 0.38 | 12/28/2015 |
| 2-Chloroethyl vinyl ether | 20.0 | | **45.1** | 50.00 | 0 | 90.2 | 46.44 | 2.91 | 12/28/2015 |
| 2-Chlorotoluene | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 49.34 | 8.67 | 12/28/2015 |
| 2-Hexanone | 25.0 | | **132** | 125.0 | 0 | 105.8 | 132.8 | 0.41 | 12/28/2015 |
| 2-Nitropropane | 50.0 | | **574** | 500.0 | 0 | 114.7 | 584.3 | 1.85 | 12/28/2015 |
| 4-Chlorotoluene | 5.0 | | **52.7** | 50.00 | 0 | 105.3 | 48.47 | 8.29 | 12/28/2015 |
| 4-Methyl-2-pentanone | 25.0 | | **128** | 125.0 | 0 | 102.0 | 129.0 | 1.15 | 12/28/2015 |
| Acetone | 25.0 | | **126** | 125.0 | 0 | 101.0 | 124.4 | 1.45 | 12/28/2015 |
| Acetonitrile | 50.0 | | **521** | 500.0 | 0 | 104.3 | 529.5 | 1.53 | 12/28/2015 |
| Acrolein | 100 | | **524** | 500.0 | 0 | 104.9 | 530.4 | 1.16 | 12/28/2015 |
| Acrylonitrile | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 53.28 | 1.47 | 12/28/2015 |
| Allyl chloride | 5.0 | S | **62.0** | 50.00 | 0 | 124.1 | 56.34 | 9.65 | 12/28/2015 |
| Benzene | 2.0 | | **52.1** | 50.00 | 0 | 104.2 | 47.75 | 8.75 | 12/28/2015 |
| Bromobenzene | 5.0 | | **56.6** | 50.00 | 0 | 113.2 | 46.76 | 19.06 | 12/28/2015 |
| Bromochloromethane | 5.0 | | **49.7** | 50.00 | 0 | 99.5 | 49.58 | 0.32 | 12/28/2015 |
| Bromodichloromethane | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 48.34 | 3.18 | 12/28/2015 |
| Bromoform | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 51.01 | 0.47 | 12/28/2015 |
| Bromomethane | 10.0 | | **44.3** | 50.00 | 0 | 88.6 | 39.56 | 11.28 | 12/28/2015 |
| Carbon disulfide | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 47.42 | 15.88 | 12/28/2015 |
| Carbon tetrachloride | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 48.11 | 12.82 | 12/28/2015 |
| Chlorobenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 47.96 | 7.22 | 12/28/2015 |
| Chloroethane | 10.0 | | **51.8** | 50.00 | 0 | 103.6 | 47.05 | 9.61 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115254** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-R151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **50.8** | 50.00 | 0 | 101.6 | 47.58 | 6.51 | 12/28/2015 |
| Chloromethane | 10.0 | | **48.5** | 50.00 | 0 | 97.0 | 44.55 | 8.47 | 12/28/2015 |
| Chloroprene | 20.0 | | **52.3** | 50.00 | 0 | 104.6 | 46.95 | 10.82 | 12/28/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 49.00 | 8.29 | 12/28/2015 |
| cis-1,3-Dichloropropene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 51.80 | 4.20 | 12/28/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **55.7** | 50.00 | 0 | 111.4 | 54.07 | 2.95 | 12/28/2015 |
| Cyclohexanone | 50.0 | | **455** | 500.0 | 0 | 91.0 | 419.6 | 8.12 | 12/28/2015 |
| Dibromochloromethane | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 50.83 | 1.58 | 12/28/2015 |
| Dibromomethane | 5.0 | | **49.1** | 50.00 | 0 | 98.3 | 48.14 | 2.06 | 12/28/2015 |
| Dichlorodifluoromethane | 10.0 | | **65.1** | 50.00 | 0 | 130.2 | 56.56 | 14.01 | 12/28/2015 |
| Diisopropyl ether | 2.0 | | **51.3** | 50.00 | 0 | 102.7 | 50.87 | 0.90 | 12/28/2015 |
| Ethyl acetate | 10.0 | | **52.3** | 50.00 | 0 | 104.7 | 52.72 | 0.74 | 12/28/2015 |
| Ethyl ether | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 48.48 | 1.25 | 12/28/2015 |
| Ethyl methacrylate | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 55.03 | 0.95 | 12/28/2015 |
| Ethylbenzene | 5.0 | | **55.4** | 50.00 | 0 | 110.8 | 49.96 | 10.34 | 12/28/2015 |
| Ethyl-tert-butyl ether | 2.0 | | **50.4** | 50.00 | 0 | 100.7 | 49.87 | 0.96 | 12/28/2015 |
| Hexachlorobutadiene | 5.0 | | **58.5** | 50.00 | 0 | 117.0 | 49.25 | 17.14 | 12/28/2015 |
| Hexachloroethane | 10.0 | | **56.9** | 50.00 | 0 | 113.7 | 50.36 | 12.12 | 12/28/2015 |
| Iodomethane | 5.0 | | **34.1** | 50.00 | 0 | 68.3 | 28.08 | 19.48 | 12/28/2015 |
| Isopropylbenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 49.78 | 11.37 | 12/28/2015 |
| m,p-Xylenes | 5.0 | | **111** | 100.0 | 0 | 111.0 | 100.8 | 9.64 | 12/28/2015 |
| Methacrylonitrile | 10.0 | | **50.7** | 50.00 | 0 | 101.4 | 51.06 | 0.67 | 12/28/2015 |
| Methyl Methacrylate | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 55.13 | 1.31 | 12/28/2015 |
| Methyl tert-butyl ether | 2.0 | | **51.0** | 50.00 | 0 | 102.0 | 51.18 | 0.31 | 12/28/2015 |
| Methylacrylate | 10.0 | | **55.4** | 50.00 | 0 | 110.9 | 55.40 | 0.07 | 12/28/2015 |
| Methylene chloride | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 48.40 | 3.01 | 12/28/2015 |
| Naphthalene | 10.0 | | **56.4** | 50.00 | 0 | 112.9 | 54.14 | 4.18 | 12/28/2015 |
| n-Butyl acetate | 25.0 | | **54.8** | 50.00 | 0 | 109.5 | 55.05 | 0.53 | 12/28/2015 |
| n-Butylbenzene | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 48.89 | 12.63 | 12/28/2015 |
| n-Heptane | 20.0 | | **57.5** | 50.00 | 0 | 115.1 | 48.81 | 16.42 | 12/28/2015 |
| n-Hexane | 20.0 | | **57.8** | 50.00 | 0 | 115.5 | 49.40 | 15.59 | 12/28/2015 |
| Nitrobenzene | 50.0 | | **472** | 500.0 | 0 | 94.4 | 438.8 | 7.29 | 12/28/2015 |
| n-Propylbenzene | 5.0 | | **55.4** | 50.00 | 0 | 110.9 | 49.76 | 10.78 | 12/28/2015 |
| o-Xylene | 5.0 | | **54.5** | 50.00 | 0 | 109.1 | 49.77 | 9.13 | 12/28/2015 |
| Pentachloroethane | 20.0 | | **56.2** | 50.00 | 0 | 112.5 | 53.35 | 5.29 | 12/28/2015 |
| p-Isopropyltoluene | 5.0 | | **56.8** | 50.00 | 0 | 113.5 | 50.22 | 12.23 | 12/28/2015 |
| Propionitrile | 50.0 | | **517** | 500.0 | 0 | 103.3 | 513.4 | 0.60 | 12/28/2015 |
| sec-Butylbenzene | 5.0 | | **55.5** | 50.00 | 0 | 111.1 | 49.29 | 11.92 | 12/28/2015 |
| Styrene | 5.0 | | **55.4** | 50.00 | 0 | 110.7 | 51.00 | 8.18 | 12/28/2015 |
| tert-Amyl methyl ether | 2.0 | | **48.9** | 50.00 | 0 | 97.8 | 48.93 | 0.10 | 12/28/2015 |
| tert-Butyl alcohol | 25.0 | | **237** | 250.0 | 0 | 94.7 | 227.7 | 3.95 | 12/28/2015 |
| tert-Butylbenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.5 | 48.09 | 11.08 | 12/28/2015 |
| Tetrachloroethene | 5.0 | | **53.8** | 50.00 | 0 | 107.7 | 48.41 | 10.60 | 12/28/2015 |
| Tetrahydrofuran | 20.0 | | **47.7** | 50.00 | 0 | 95.5 | 48.75 | 2.09 | 12/28/2015 |
| Toluene | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 49.31 | 7.68 | 12/28/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 50.31 | 10.01 | 12/28/2015 |
| trans-1,3-Dichloropropene | 5.0 | | **54.4** | 50.00 | 0 | 108.9 | 52.66 | 3.31 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115254** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-R151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **53.6** | 50.00 | 0 | 107.3 | 51.93 | 3.22 | 12/28/2015 |
| Trichloroethene | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 46.25 | 10.35 | 12/28/2015 |
| Trichlorofluoromethane | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 43.22 | 12.49 | 12/28/2015 |
| Vinyl acetate | 10.0 | | **55.1** | 50.00 | 0 | 110.1 | 52.27 | 5.20 | 12/28/2015 |
| Vinyl chloride | 2.0 | | **52.1** | 50.00 | 0 | 104.2 | 44.38 | 16.00 | 12/28/2015 |
| Xylenes, Total | 5.0 | | **166** | 150.0 | 0 | 110.3 | 150.5 | 9.47 | 12/28/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **109** | 100.0 | 0 | 108.8 | 99.31 | 9.17 | 12/28/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **108** | 100.0 | 0 | 108.4 | 104.5 | 3.75 | 12/28/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **109** | 100.0 | 0 | 109.3 | 106.0 | 3.08 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.3** | 50.00 | | 100.6 | | | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.2** | 50.00 | | 98.4 | | | 12/28/2015 |
| Surr: Toluene-d8 | | | **49.9** | 50.00 | | 99.8 | | | 12/28/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121500

**Client Project:** NGA 2015-0461.21

**Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115254** **SampType:** **LCS** Units **µg/L**

SampID: LCS-R151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.1** | 50.00 | 0 | 100.1 | 81.9 | 115 | 12/28/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 79.4 | 124 | 12/28/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 74.7 | 116 | 12/28/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **47.2** | 50.00 | 0 | 94.4 | 72.9 | 121 | 12/28/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 80.8 | 111 | 12/28/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **135** | 125.0 | 0 | 108.2 | 66.3 | 130 | 12/28/2015 |
| 1,1-Dichloroethane | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 79.4 | 114 | 12/28/2015 |
| 1,1-Dichloroethene | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 74.1 | 117 | 12/28/2015 |
| 1,1-Dichloropropene | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 81.7 | 116 | 12/28/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **51.3** | 50.00 | 0 | 102.7 | 79.7 | 118 | 12/28/2015 |
| 1,2,3-Trichloropropane | 5.0 | | **47.6** | 50.00 | 0 | 95.2 | 77.3 | 112 | 12/28/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **47.8** | 50.00 | 0 | 95.5 | 79.9 | 119 | 12/28/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 79.3 | 118 | 12/28/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 78.7 | 115 | 12/28/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 76 | 122 | 12/28/2015 |
| 1,2-Dibromoethane | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 80.8 | 114 | 12/28/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **47.6** | 50.00 | 0 | 95.2 | 78.3 | 112 | 12/28/2015 |
| 1,2-Dichloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 70.6 | 118 | 12/28/2015 |
| 1,2-Dichloropropane | 5.0 | | **49.7** | 50.00 | 0 | 99.3 | 79.6 | 113 | 12/28/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 77.5 | 115 | 12/28/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **48.6** | 50.00 | 0 | 97.2 | 78.6 | 117 | 12/28/2015 |
| 1,3-Dichloropropane | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 78.8 | 112 | 12/28/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **46.4** | 50.00 | 0 | 92.9 | 77.8 | 114 | 12/28/2015 |
| 1-Chlorobutane | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 78.6 | 115 | 12/28/2015 |
| 2,2-Dichloropropane | 5.0 | | **48.1** | 50.00 | 0 | 96.3 | 74.9 | 130 | 12/28/2015 |
| 2-Butanone | 25.0 | | **120** | 125.0 | 0 | 95.7 | 70.7 | 136 | 12/28/2015 |
| 2-Chloroethyl vinyl ether | 20.0 | | **46.4** | 50.00 | 0 | 92.9 | 52.5 | 145 | 12/28/2015 |
| 2-Chlorotoluene | 5.0 | | **49.3** | 50.00 | 0 | 98.7 | 77.4 | 114 | 12/28/2015 |
| 2-Hexanone | 25.0 | | **133** | 125.0 | 0 | 106.3 | 73.3 | 125 | 12/28/2015 |
| 2-Nitropropane | 50.0 | | **584** | 500.0 | 0 | 116.9 | 67.3 | 139 | 12/28/2015 |
| 4-Chlorotoluene | 5.0 | | **48.5** | 50.00 | 0 | 96.9 | 78.3 | 115 | 12/28/2015 |
| 4-Methyl-2-pentanone | 25.0 | | **129** | 125.0 | 0 | 103.2 | 76.3 | 122 | 12/28/2015 |
| Acetone | 25.0 | | **124** | 125.0 | 0 | 99.5 | 56.4 | 147 | 12/28/2015 |
| Acetonitrile | 50.0 | | **529** | 500.0 | 0 | 105.9 | 59.3 | 129 | 12/28/2015 |
| Acrolein | 100 | | **530** | 500.0 | 0 | 106.1 | 1 | 201 | 12/28/2015 |
| Acrylonitrile | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 74.1 | 128 | 12/28/2015 |
| Allyl chloride | 5.0 | | **56.3** | 50.00 | 0 | 112.7 | 71.5 | 123 | 12/28/2015 |
| Benzene | 2.0 | | **47.8** | 50.00 | 0 | 95.5 | 80 | 114 | 12/28/2015 |
| Bromobenzene | 5.0 | | **46.8** | 50.00 | 0 | 93.5 | 73.2 | 118 | 12/28/2015 |
| Bromochloromethane | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 73.3 | 121 | 12/28/2015 |
| Bromodichloromethane | 5.0 | | **48.3** | 50.00 | 0 | 96.7 | 81.6 | 121 | 12/28/2015 |
| Bromoform | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 83.1 | 127 | 12/28/2015 |
| Bromomethane | 10.0 | | **39.6** | 50.00 | 0 | 79.1 | 44.4 | 154 | 12/28/2015 |
| Carbon disulfide | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 73.2 | 118 | 12/28/2015 |
| Carbon tetrachloride | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 79.4 | 130 | 12/28/2015 |
| Chlorobenzene | 5.0 | | **48.0** | 50.00 | 0 | 95.9 | 81.4 | 110 | 12/28/2015 |
| Chloroethane | 10.0 | | **47.0** | 50.00 | 0 | 94.1 | 52.1 | 137 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115254** **SampType:** **LCS** Units **µg/L**

SampID: LCS-R151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **47.6** | 50.00 | 0 | 95.2 | 82.7 | 116 | 12/28/2015 |
| Chloromethane | 10.0 | | **44.6** | 50.00 | 0 | 89.1 | 48.2 | 144 | 12/28/2015 |
| Chloroprene | 20.0 | | **47.0** | 50.00 | 0 | 93.9 | 80.6 | 126 | 12/28/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 78.2 | 116 | 12/28/2015 |
| cis-1,3-Dichloropropene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 83 | 119 | 12/28/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **54.1** | 50.00 | 0 | 108.1 | 60.7 | 137 | 12/28/2015 |
| Cyclohexanone | 50.0 | | **420** | 500.0 | 0 | 83.9 | 54.2 | 145 | 12/28/2015 |
| Dibromochloromethane | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 81.2 | 121 | 12/28/2015 |
| Dibromomethane | 5.0 | | **48.1** | 50.00 | 0 | 96.3 | 78.3 | 118 | 12/28/2015 |
| Dichlorodifluoromethane | 10.0 | | **56.6** | 50.00 | 0 | 113.1 | 20.6 | 154 | 12/28/2015 |
| Diisopropyl ether | 2.0 | | **50.9** | 50.00 | 0 | 101.7 | 73.1 | 116 | 12/28/2015 |
| Ethyl acetate | 10.0 | | **52.7** | 50.00 | 0 | 105.4 | 73.1 | 116 | 12/28/2015 |
| Ethyl ether | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 75.2 | 109 | 12/28/2015 |
| Ethyl methacrylate | 5.0 | | **55.0** | 50.00 | 0 | 110.1 | 80.1 | 113 | 12/28/2015 |
| Ethylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 77.2 | 113 | 12/28/2015 |
| Ethyl-tert-butyl ether | 2.0 | | **49.9** | 50.00 | 0 | 99.7 | 75 | 118 | 12/28/2015 |
| Hexachlorobutadiene | 5.0 | | **49.2** | 50.00 | 0 | 98.5 | 77.3 | 123 | 12/28/2015 |
| Hexachloroethane | 10.0 | | **50.4** | 50.00 | 0 | 100.7 | 74.6 | 117 | 12/28/2015 |
| Iodomethane | 5.0 | S | **28.1** | 50.00 | 0 | 56.2 | 61.3 | 140 | 12/28/2015 |
| Isopropylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 81.3 | 114 | 12/28/2015 |
| m,p-Xylenes | 5.0 | | **101** | 100.0 | 0 | 100.8 | 79.6 | 113 | 12/28/2015 |
| Methacrylonitrile | 10.0 | | **51.1** | 50.00 | 0 | 102.1 | 77.2 | 125 | 12/28/2015 |
| Methyl Methacrylate | 5.0 | | **55.1** | 50.00 | 0 | 110.3 | 74.2 | 121 | 12/28/2015 |
| Methyl tert-butyl ether | 2.0 | | **51.2** | 50.00 | 0 | 102.4 | 76.8 | 117 | 12/28/2015 |
| Methylacrylate | 10.0 | | **55.4** | 50.00 | 0 | 110.8 | 78 | 124 | 12/28/2015 |
| Methylene chloride | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 74.1 | 114 | 12/28/2015 |
| Naphthalene | 10.0 | | **54.1** | 50.00 | 0 | 108.3 | 77.9 | 122 | 12/28/2015 |
| n-Butyl acetate | 25.0 | | **55.0** | 50.00 | 0 | 110.1 | 74 | 120 | 12/28/2015 |
| n-Butylbenzene | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 71.1 | 120 | 12/28/2015 |
| n-Heptane | 20.0 | | **48.8** | 50.00 | 0 | 97.6 | 67.4 | 129 | 12/28/2015 |
| n-Hexane | 20.0 | | **49.4** | 50.00 | 0 | 98.8 | 68.4 | 126 | 12/28/2015 |
| Nitrobenzene | 50.0 | | **439** | 500.0 | 0 | 87.8 | 37.9 | 181 | 12/28/2015 |
| n-Propylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 74.6 | 118 | 12/28/2015 |
| o-Xylene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 80.1 | 111 | 12/28/2015 |
| Pentachloroethane | 20.0 | | **53.4** | 50.00 | 0 | 106.7 | 78.8 | 117 | 12/28/2015 |
| p-Isopropyltoluene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 77.6 | 118 | 12/28/2015 |
| Propionitrile | 50.0 | | **513** | 500.0 | 0 | 102.7 | 72.9 | 137 | 12/28/2015 |
| sec-Butylbenzene | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 74.5 | 119 | 12/28/2015 |
| Styrene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 83.4 | 113 | 12/28/2015 |
| tert-Amyl methyl ether | 2.0 | | **48.9** | 50.00 | 0 | 97.9 | 78.7 | 117 | 12/28/2015 |
| tert-Butyl alcohol | 25.0 | | **228** | 250.0 | 0 | 91.1 | 58.1 | 139 | 12/28/2015 |
| tert-Butylbenzene | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 75.9 | 114 | 12/28/2015 |
| Tetrachloroethene | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 72.5 | 125 | 12/28/2015 |
| Tetrahydrofuran | 20.0 | | **48.8** | 50.00 | 0 | 97.5 | 69.6 | 125 | 12/28/2015 |
| Toluene | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 77.5 | 113 | 12/28/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 79 | 114 | 12/28/2015 |
| trans-1,3-Dichloropropene | 5.0 | | **52.7** | 50.00 | 0 | 105.3 | 78 | 115 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115254 **SampType:** LCS Units **µg/L**

SampID: LCS-R151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **51.9** | 50.00 | 0 | 103.9 | 63.3 | 128 | 12/28/2015 |
| Trichloroethene | 5.0 | | **46.2** | 50.00 | 0 | 92.5 | 84.4 | 114 | 12/28/2015 |
| Trichlorofluoromethane | 5.0 | | **43.2** | 50.00 | 0 | 86.4 | 75.2 | 132 | 12/28/2015 |
| Vinyl acetate | 10.0 | | **52.3** | 50.00 | 0 | 104.5 | 64.5 | 127 | 12/28/2015 |
| Vinyl chloride | 2.0 | | **44.4** | 50.00 | 0 | 88.8 | 58 | 134 | 12/28/2015 |
| Xylenes, Total | 5.0 | | **151** | 150.0 | 0 | 100.4 | 80.1 | 111 | 12/28/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **99.3** | 100.0 | 0 | 99.3 | 78.2 | 116 | 12/28/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **104** | 100.0 | 0 | 104.5 | 78 | 119 | 12/28/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **106** | 100.0 | 0 | 106.0 | 60.7 | 137 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.2** | 50.00 | | 100.5 | 74.7 | 129 | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.7** | 50.00 | | 99.3 | 86 | 119 | 12/28/2015 |
| Surr: Toluene-d8 | | | **50.6** | 50.00 | | 101.1 | 84.1 | 114 | 12/28/2015 |

**Batch** 115254 **SampType:** MS Units **µg/L**

SampID: 15121690-001AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 20.0 | | **563** | 500.0 | 70.80 | 98.4 | 62.5 | 121 | 12/28/2015 |
| Ethylbenzene | 50.0 | | **562** | 500.0 | 22.70 | 107.8 | 74.4 | 130 | 12/28/2015 |
| m,p-Xylenes | 50.0 | | **649** | 500.0 | 109.6 | 107.8 | 70.5 | 126 | 12/28/2015 |
| o-Xylene | 50.0 | | **555** | 500.0 | 45.10 | 102.0 | 71.2 | 124 | 12/28/2015 |
| Toluene | 50.0 | | **631** | 500.0 | 134.3 | 99.4 | 69.5 | 118 | 12/28/2015 |
| Xylenes, Total | 50.0 | | **1200** | 1000 | 154.7 | 104.9 | 71.1 | 125 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **508** | 500.0 | | 101.5 | 74.7 | 129 | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **494** | 500.0 | | 98.8 | 86 | 119 | 12/28/2015 |
| Surr: Toluene-d8 | | | **502** | 500.0 | | 100.3 | 84.3 | 114 | 12/28/2015 |

**Batch** 115254 **SampType:** MSD Units **µg/L** RPD Limit **20**

SampID: 15121690-001AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 20.0 | | **556** | 500.0 | 70.80 | 97.0 | 562.7 | 1.25 | 12/28/2015 |
| Ethylbenzene | 50.0 | | **543** | 500.0 | 22.70 | 104.0 | 561.6 | 3.39 | 12/28/2015 |
| m,p-Xylenes | 50.0 | | **628** | 500.0 | 109.6 | 103.8 | 648.6 | 3.16 | 12/28/2015 |
| o-Xylene | 50.0 | | **542** | 500.0 | 45.10 | 99.4 | 555.0 | 2.39 | 12/28/2015 |
| Toluene | 50.0 | | **621** | 500.0 | 134.3 | 97.4 | 631.4 | 1.61 | 12/28/2015 |
| Xylenes, Total | 50.0 | | **1170** | 1000 | 154.7 | 101.6 | 1204 | 2.81 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **515** | 500.0 | | 102.9 | | | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **488** | 500.0 | | 97.6 | | | 12/28/2015 |
| Surr: Toluene-d8 | | | **499** | 500.0 | | 99.9 | | | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115260** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,3-Trichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Butanone | 25.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Chloroethyl vinyl ether | 20.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Hexanone | 25.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/28/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 4-Methyl-2-pentanone | 25.0 | | **ND** | | | | | | 12/28/2015 |
| Acetone | 25.0 | | **ND** | | | | | | 12/28/2015 |
| Acetonitrile | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/28/2015 |
| Acrylonitrile | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Benzene | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115260** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Chloromethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Chloroprene | 20.0 | | **ND** | | | | | | 12/28/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| cis-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Cyclohexanone | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Diisopropyl ether | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl acetate | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl-tert-butyl ether | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Hexachloroethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Iodomethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Methacrylonitrile | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/28/2015 |
| n-Butyl acetate | 25.0 | | **ND** | | | | | | 12/28/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| Nitrobenzene | 50.0 | | **ND** | | | | | | 12/28/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Pentachloroethane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/28/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| tert-Amyl methyl ether | 2.0 | | **ND** | | | | | | 12/28/2015 |
| tert-Butyl alcohol | 25.0 | | **ND** | | | | | | 12/28/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Tetrahydrofuran | 20.0 | | **ND** | | | | | | 12/28/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| trans-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115260** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Vinyl acetate | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **40.0** | 50.00 | | 79.9 | 74.7 | 129 | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **44.9** | 50.00 | | 89.9 | 86 | 119 | 12/28/2015 |
| Surr: Toluene-d8 | | | **47.8** | 50.00 | | 95.7 | 84.3 | 114 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115260** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 53.64 | 0.26 | 12/28/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 46.63 | 1.05 | 12/28/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **43.6** | 50.00 | 0 | 87.2 | 43.59 | 0.02 | 12/28/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **53.8** | 50.00 | 0 | 107.6 | 54.58 | 1.48 | 12/28/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **46.8** | 50.00 | 0 | 93.7 | 47.16 | 0.68 | 12/28/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **101** | 125.0 | 0 | 81.1 | 102.3 | 0.94 | 12/28/2015 |
| 1,1-Dichloroethane | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 47.78 | 2.12 | 12/28/2015 |
| 1,1-Dichloroethene | 5.0 | | **47.2** | 50.00 | 0 | 94.4 | 47.90 | 1.47 | 12/28/2015 |
| 1,1-Dichloropropene | 5.0 | | **48.6** | 50.00 | 0 | 97.2 | 47.46 | 2.37 | 12/28/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **58.5** | 50.00 | 0 | 117.1 | 55.80 | 4.78 | 12/28/2015 |
| 1,2,3-Trichloropropane | 5.0 | | **46.5** | 50.00 | 0 | 93.0 | 46.59 | 0.17 | 12/28/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **46.5** | 50.00 | 0 | 92.9 | 46.29 | 0.39 | 12/28/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **56.8** | 50.00 | 0 | 113.7 | 55.60 | 2.19 | 12/28/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 50.04 | 2.06 | 12/28/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **43.1** | 50.00 | 0 | 86.2 | 43.42 | 0.76 | 12/28/2015 |
| 1,2-Dibromoethane | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 49.98 | 2.43 | 12/28/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.1 | 52.37 | 2.27 | 12/28/2015 |
| 1,2-Dichloroethane | 5.0 | | **40.9** | 50.00 | 0 | 81.8 | 41.06 | 0.44 | 12/28/2015 |
| 1,2-Dichloropropane | 5.0 | | **46.0** | 50.00 | 0 | 92.0 | 46.21 | 0.46 | 12/28/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 50.80 | 0.85 | 12/28/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.5 | 52.40 | 0.32 | 12/28/2015 |
| 1,3-Dichloropropane | 5.0 | | **45.1** | 50.00 | 0 | 90.2 | 44.12 | 2.22 | 12/28/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 50.91 | 0.55 | 12/28/2015 |
| 1-Chlorobutane | 5.0 | | **44.3** | 50.00 | 0 | 88.5 | 43.22 | 2.40 | 12/28/2015 |
| 2,2-Dichloropropane | 5.0 | | **46.0** | 50.00 | 0 | 92.0 | 46.72 | 1.55 | 12/28/2015 |
| 2-Butanone | 25.0 | | **104** | 125.0 | 0 | 82.9 | 106.5 | 2.78 | 12/28/2015 |
| 2-Chloroethyl vinyl ether | 20.0 | | **44.6** | 50.00 | 0 | 89.1 | 44.62 | 0.16 | 12/28/2015 |
| 2-Chlorotoluene | 5.0 | | **46.2** | 50.00 | 0 | 92.5 | 45.87 | 0.78 | 12/28/2015 |
| 2-Hexanone | 25.0 | | **96.0** | 125.0 | 0 | 76.8 | 97.23 | 1.31 | 12/28/2015 |
| 2-Nitropropane | 50.0 | | **423** | 500.0 | 0 | 84.7 | 422.3 | 0.25 | 12/28/2015 |
| 4-Chlorotoluene | 5.0 | | **45.5** | 50.00 | 0 | 91.1 | 45.97 | 0.94 | 12/28/2015 |
| 4-Methyl-2-pentanone | 25.0 | | **107** | 125.0 | 0 | 85.9 | 107.0 | 0.36 | 12/28/2015 |
| Acetone | 25.0 | | **101** | 125.0 | 0 | 80.5 | 105.5 | 4.77 | 12/28/2015 |
| Acetonitrile | 50.0 | | **496** | 500.0 | 0 | 99.2 | 496.7 | 0.14 | 12/28/2015 |
| Acrolein | 100 | | **385** | 500.0 | 0 | 76.9 | 391.3 | 1.70 | 12/28/2015 |
| Acrylonitrile | 5.0 | | **45.0** | 50.00 | 0 | 89.9 | 44.61 | 0.80 | 12/28/2015 |
| Allyl chloride | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 48.36 | 2.03 | 12/28/2015 |
| Benzene | 2.0 | | **49.1** | 50.00 | 0 | 98.2 | 49.71 | 1.19 | 12/28/2015 |
| Bromobenzene | 5.0 | | **43.2** | 50.00 | 0 | 86.3 | 43.12 | 0.12 | 12/28/2015 |
| Bromochloromethane | 5.0 | | **41.4** | 50.00 | 0 | 82.8 | 41.58 | 0.46 | 12/28/2015 |
| Bromodichloromethane | 5.0 | | **47.0** | 50.00 | 0 | 93.9 | 47.83 | 1.86 | 12/28/2015 |
| Bromoform | 5.0 | | **56.3** | 50.00 | 0 | 112.5 | 55.92 | 0.62 | 12/28/2015 |
| Bromomethane | 10.0 | | **27.5** | 50.00 | 0 | 55.1 | 28.48 | 3.39 | 12/28/2015 |
| Carbon disulfide | 5.0 | | **56.4** | 50.00 | 0 | 112.9 | 56.09 | 0.64 | 12/28/2015 |
| Carbon tetrachloride | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 50.68 | 2.09 | 12/28/2015 |
| Chlorobenzene | 5.0 | | **51.3** | 50.00 | 0 | 102.7 | 51.17 | 0.33 | 12/28/2015 |
| Chloroethane | 10.0 | | **29.6** | 50.00 | 0 | 59.1 | 30.81 | 4.17 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115260** **SampType: LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **45.5** | 50.00 | 0 | 91.0 | 45.19 | 0.68 | 12/28/2015 |
| Chloromethane | 10.0 | | **33.8** | 50.00 | 0 | 67.7 | 35.03 | 3.43 | 12/28/2015 |
| Chloroprene | 20.0 | | **41.9** | 50.00 | 0 | 83.8 | 41.41 | 1.13 | 12/28/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **44.5** | 50.00 | 0 | 88.9 | 44.62 | 0.36 | 12/28/2015 |
| cis-1,3-Dichloropropene | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 49.54 | 1.24 | 12/28/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **39.6** | 50.00 | 0 | 79.1 | 40.52 | 2.42 | 12/28/2015 |
| Cyclohexanone | 50.0 | | **545** | 500.0 | 0 | 109.0 | 564.6 | 3.52 | 12/28/2015 |
| Dibromochloromethane | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 53.63 | 1.02 | 12/28/2015 |
| Dibromomethane | 5.0 | | **45.7** | 50.00 | 0 | 91.5 | 46.27 | 1.17 | 12/28/2015 |
| Dichlorodifluoromethane | 10.0 | | **53.8** | 50.00 | 0 | 107.5 | 53.83 | 0.13 | 12/28/2015 |
| Diisopropyl ether | 2.0 | | **42.1** | 50.00 | 0 | 84.2 | 41.60 | 1.15 | 12/28/2015 |
| Ethyl acetate | 10.0 | | **42.5** | 50.00 | 0 | 85.0 | 42.53 | 0.09 | 12/28/2015 |
| Ethyl ether | 5.0 | | **46.7** | 50.00 | 0 | 93.5 | 46.65 | 0.19 | 12/28/2015 |
| Ethyl methacrylate | 5.0 | | **46.7** | 50.00 | 0 | 93.5 | 46.96 | 0.49 | 12/28/2015 |
| Ethylbenzene | 5.0 | | **47.2** | 50.00 | 0 | 94.4 | 46.60 | 1.24 | 12/28/2015 |
| Ethyl-tert-butyl ether | 2.0 | | **43.9** | 50.00 | 0 | 87.8 | 44.31 | 0.95 | 12/28/2015 |
| Hexachlorobutadiene | 5.0 | S | **64.4** | 50.00 | 0 | 128.9 | 61.97 | 3.91 | 12/28/2015 |
| Hexachloroethane | 10.0 | | **50.1** | 50.00 | 0 | 100.3 | 50.80 | 1.31 | 12/28/2015 |
| Iodomethane | 5.0 | | **68.3** | 50.00 | 0 | 136.7 | 69.24 | 1.32 | 12/28/2015 |
| Isopropylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 50.78 | 1.91 | 12/28/2015 |
| m,p-Xylenes | 5.0 | | **96.0** | 100.0 | 0 | 96.0 | 95.42 | 0.59 | 12/28/2015 |
| Methacrylonitrile | 10.0 | | **43.2** | 50.00 | 0 | 86.4 | 42.96 | 0.56 | 12/28/2015 |
| Methyl Methacrylate | 5.0 | | **41.2** | 50.00 | 0 | 82.4 | 42.02 | 1.97 | 12/28/2015 |
| Methyl tert-butyl ether | 2.0 | | **47.9** | 50.00 | 0 | 95.8 | 47.88 | 0.02 | 12/28/2015 |
| Methylacrylate | 10.0 | | **47.4** | 50.00 | 0 | 94.8 | 47.90 | 1.05 | 12/28/2015 |
| Methylene chloride | 5.0 | | **43.0** | 50.00 | 0 | 86.0 | 42.93 | 0.19 | 12/28/2015 |
| Naphthalene | 10.0 | | **57.2** | 50.00 | 0 | 114.3 | 54.86 | 4.11 | 12/28/2015 |
| n-Butyl acetate | 25.0 | | **39.3** | 50.00 | 0 | 78.5 | 39.37 | 0.28 | 12/28/2015 |
| n-Butylbenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 48.65 | 2.56 | 12/28/2015 |
| n-Heptane | 20.0 | | **43.2** | 50.00 | 0 | 86.3 | 43.28 | 0.28 | 12/28/2015 |
| n-Hexane | 20.0 | | **48.8** | 50.00 | 0 | 97.5 | 49.42 | 1.32 | 12/28/2015 |
| Nitrobenzene | 50.0 | | **522** | 500.0 | 0 | 104.4 | 536.3 | 2.66 | 12/28/2015 |
| n-Propylbenzene | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 47.73 | 0.46 | 12/28/2015 |
| o-Xylene | 5.0 | | **47.0** | 50.00 | 0 | 94.1 | 46.54 | 1.07 | 12/28/2015 |
| Pentachloroethane | 20.0 | | **53.2** | 50.00 | 0 | 106.4 | 53.85 | 1.25 | 12/28/2015 |
| p-Isopropyltoluene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 52.29 | 1.89 | 12/28/2015 |
| Propionitrile | 50.0 | | **496** | 500.0 | 0 | 99.3 | 506.2 | 1.94 | 12/28/2015 |
| sec-Butylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 49.20 | 3.26 | 12/28/2015 |
| Styrene | 5.0 | | **51.1** | 50.00 | 0 | 102.3 | 50.07 | 2.09 | 12/28/2015 |
| tert-Amyl methyl ether | 2.0 | | **46.4** | 50.00 | 0 | 92.8 | 46.06 | 0.74 | 12/28/2015 |
| tert-Butyl alcohol | 25.0 | | **257** | 250.0 | 0 | 102.9 | 270.8 | 5.14 | 12/28/2015 |
| tert-Butylbenzene | 5.0 | | **45.3** | 50.00 | 0 | 90.6 | 45.33 | 0.07 | 12/28/2015 |
| Tetrachloroethene | 5.0 | | **56.8** | 50.00 | 0 | 113.7 | 56.09 | 1.35 | 12/28/2015 |
| Tetrahydrofuran | 20.0 | | **41.2** | 50.00 | 0 | 82.4 | 41.84 | 1.49 | 12/28/2015 |
| Toluene | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 47.64 | 2.14 | 12/28/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 47.69 | 0.65 | 12/28/2015 |
| trans-1,3-Dichloropropene | 5.0 | | **47.0** | 50.00 | 0 | 94.1 | 47.04 | 0.02 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115260** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **37.2** | 50.00 | 0 | 74.4 | 38.66 | 3.88 | 12/28/2015 |
| Trichloroethene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 50.16 | 0.90 | 12/28/2015 |
| Trichlorofluoromethane | 5.0 | | **46.4** | 50.00 | 0 | 92.9 | 46.65 | 0.45 | 12/28/2015 |
| Vinyl acetate | 10.0 | | **41.2** | 50.00 | 0 | 82.3 | 43.95 | 6.53 | 12/28/2015 |
| Vinyl chloride | 2.0 | | **32.2** | 50.00 | 0 | 64.4 | 32.84 | 1.94 | 12/28/2015 |
| Xylenes, Total | 5.0 | | **143** | 150.0 | 0 | 95.3 | 142.0 | 0.74 | 12/28/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **91.8** | 100.0 | 0 | 91.8 | 92.31 | 0.51 | 12/28/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **97.2** | 100.0 | 0 | 97.2 | 96.58 | 0.63 | 12/28/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **76.7** | 100.0 | 0 | 76.7 | 79.18 | 3.13 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **39.7** | 50.00 | | 79.3 | | | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **44.4** | 50.00 | | 88.8 | | | 12/28/2015 |
| Surr: Toluene-d8 | | | **46.5** | 50.00 | | 93.0 | | | 12/28/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500

**Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115260** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 81.9 | 115 | 12/28/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **46.6** | 50.00 | 0 | 93.3 | 79.4 | 124 | 12/28/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **43.6** | 50.00 | 0 | 87.2 | 74.7 | 116 | 12/28/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **54.6** | 50.00 | 0 | 109.2 | 72.9 | 121 | 12/28/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **47.2** | 50.00 | 0 | 94.3 | 80.8 | 111 | 12/28/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **102** | 125.0 | 0 | 81.9 | 66.3 | 130 | 12/28/2015 |
| 1,1-Dichloroethane | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 79.4 | 114 | 12/28/2015 |
| 1,1-Dichloroethene | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 74.1 | 117 | 12/28/2015 |
| 1,1-Dichloropropene | 5.0 | | **47.5** | 50.00 | 0 | 94.9 | 81.7 | 116 | 12/28/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 79.7 | 118 | 12/28/2015 |
| 1,2,3-Trichloropropane | 5.0 | | **46.6** | 50.00 | 0 | 93.2 | 77.3 | 112 | 12/28/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **46.3** | 50.00 | 0 | 92.6 | 79.9 | 119 | 12/28/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 79.3 | 118 | 12/28/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 78.7 | 115 | 12/28/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **43.4** | 50.00 | 0 | 86.8 | 76 | 122 | 12/28/2015 |
| 1,2-Dibromoethane | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 80.8 | 114 | 12/28/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.7 | 78.3 | 112 | 12/28/2015 |
| 1,2-Dichloroethane | 5.0 | | **41.1** | 50.00 | 0 | 82.1 | 70.6 | 118 | 12/28/2015 |
| 1,2-Dichloropropane | 5.0 | | **46.2** | 50.00 | 0 | 92.4 | 79.6 | 113 | 12/28/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.6 | 77.5 | 115 | 12/28/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 78.6 | 117 | 12/28/2015 |
| 1,3-Dichloropropane | 5.0 | | **44.1** | 50.00 | 0 | 88.2 | 78.8 | 112 | 12/28/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 77.8 | 114 | 12/28/2015 |
| 1-Chlorobutane | 5.0 | | **43.2** | 50.00 | 0 | 86.4 | 78.6 | 115 | 12/28/2015 |
| 2,2-Dichloropropane | 5.0 | | **46.7** | 50.00 | 0 | 93.4 | 74.9 | 130 | 12/28/2015 |
| 2-Butanone | 25.0 | | **107** | 125.0 | 0 | 85.2 | 70.7 | 136 | 12/28/2015 |
| 2-Chloroethyl vinyl ether | 20.0 | | **44.6** | 50.00 | 0 | 89.2 | 52.5 | 145 | 12/28/2015 |
| 2-Chlorotoluene | 5.0 | | **45.9** | 50.00 | 0 | 91.7 | 77.4 | 114 | 12/28/2015 |
| 2-Hexanone | 25.0 | | **97.2** | 125.0 | 0 | 77.8 | 73.3 | 125 | 12/28/2015 |
| 2-Nitropropane | 50.0 | | **422** | 500.0 | 0 | 84.5 | 67.3 | 139 | 12/28/2015 |
| 4-Chlorotoluene | 5.0 | | **46.0** | 50.00 | 0 | 91.9 | 78.3 | 115 | 12/28/2015 |
| 4-Methyl-2-pentanone | 25.0 | | **107** | 125.0 | 0 | 85.6 | 76.3 | 122 | 12/28/2015 |
| Acetone | 25.0 | | **106** | 125.0 | 0 | 84.4 | 56.4 | 147 | 12/28/2015 |
| Acetonitrile | 50.0 | | **497** | 500.0 | 0 | 99.3 | 59.3 | 129 | 12/28/2015 |
| Acrolein | 100 | | **391** | 500.0 | 0 | 78.3 | 1 | 201 | 12/28/2015 |
| Acrylonitrile | 5.0 | | **44.6** | 50.00 | 0 | 89.2 | 74.1 | 128 | 12/28/2015 |
| Allyl chloride | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 71.5 | 123 | 12/28/2015 |
| Benzene | 2.0 | | **49.7** | 50.00 | 0 | 99.4 | 80 | 114 | 12/28/2015 |
| Bromobenzene | 5.0 | | **43.1** | 50.00 | 0 | 86.2 | 73.2 | 118 | 12/28/2015 |
| Bromochloromethane | 5.0 | | **41.6** | 50.00 | 0 | 83.2 | 73.3 | 121 | 12/28/2015 |
| Bromodichloromethane | 5.0 | | **47.8** | 50.00 | 0 | 95.7 | 81.6 | 121 | 12/28/2015 |
| Bromoform | 5.0 | | **55.9** | 50.00 | 0 | 111.8 | 83.1 | 127 | 12/28/2015 |
| Bromomethane | 10.0 | | **28.5** | 50.00 | 0 | 57.0 | 44.4 | 154 | 12/28/2015 |
| Carbon disulfide | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 73.2 | 118 | 12/28/2015 |
| Carbon tetrachloride | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 79.4 | 130 | 12/28/2015 |
| Chlorobenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 81.4 | 110 | 12/28/2015 |
| Chloroethane | 10.0 | | **30.8** | 50.00 | 0 | 61.6 | 52.1 | 137 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115260** **SampType: LCS** Units **µg/L**

SampID: LCS-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **45.2** | 50.00 | 0 | 90.4 | 82.7 | 116 | 12/28/2015 |
| Chloromethane | 10.0 | | **35.0** | 50.00 | 0 | 70.1 | 48.2 | 144 | 12/28/2015 |
| Chloroprene | 20.0 | | **41.4** | 50.00 | 0 | 82.8 | 80.6 | 126 | 12/28/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **44.6** | 50.00 | 0 | 89.2 | 78.2 | 116 | 12/28/2015 |
| cis-1,3-Dichloropropene | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 83 | 119 | 12/28/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **40.5** | 50.00 | 0 | 81.0 | 60.7 | 137 | 12/28/2015 |
| Cyclohexanone | 50.0 | | **565** | 500.0 | 0 | 112.9 | 54.2 | 145 | 12/28/2015 |
| Dibromochloromethane | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 81.2 | 121 | 12/28/2015 |
| Dibromomethane | 5.0 | | **46.3** | 50.00 | 0 | 92.5 | 78.3 | 118 | 12/28/2015 |
| Dichlorodifluoromethane | 10.0 | | **53.8** | 50.00 | 0 | 107.7 | 20.6 | 154 | 12/28/2015 |
| Diisopropyl ether | 2.0 | | **41.6** | 50.00 | 0 | 83.2 | 73.1 | 116 | 12/28/2015 |
| Ethyl acetate | 10.0 | | **42.5** | 50.00 | 0 | 85.1 | 73.1 | 116 | 12/28/2015 |
| Ethyl ether | 5.0 | | **46.6** | 50.00 | 0 | 93.3 | 75.2 | 109 | 12/28/2015 |
| Ethyl methacrylate | 5.0 | | **47.0** | 50.00 | 0 | 93.9 | 80.1 | 113 | 12/28/2015 |
| Ethylbenzene | 5.0 | | **46.6** | 50.00 | 0 | 93.2 | 77.2 | 113 | 12/28/2015 |
| Ethyl-tert-butyl ether | 2.0 | | **44.3** | 50.00 | 0 | 88.6 | 75 | 118 | 12/28/2015 |
| Hexachlorobutadiene | 5.0 | S | **62.0** | 50.00 | 0 | 123.9 | 77.3 | 123 | 12/28/2015 |
| Hexachloroethane | 10.0 | | **50.8** | 50.00 | 0 | 101.6 | 74.6 | 117 | 12/28/2015 |
| Iodomethane | 5.0 | | **69.2** | 50.00 | 0 | 138.5 | 61.3 | 140 | 12/28/2015 |
| Isopropylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.6 | 81.3 | 114 | 12/28/2015 |
| m,p-Xylenes | 5.0 | | **95.4** | 100.0 | 0 | 95.4 | 79.6 | 113 | 12/28/2015 |
| Methacrylonitrile | 10.0 | | **43.0** | 50.00 | 0 | 85.9 | 77.2 | 125 | 12/28/2015 |
| Methyl Methacrylate | 5.0 | | **42.0** | 50.00 | 0 | 84.0 | 74.2 | 121 | 12/28/2015 |
| Methyl tert-butyl ether | 2.0 | | **47.9** | 50.00 | 0 | 95.8 | 76.8 | 117 | 12/28/2015 |
| Methylacrylate | 10.0 | | **47.9** | 50.00 | 0 | 95.8 | 78 | 124 | 12/28/2015 |
| Methylene chloride | 5.0 | | **42.9** | 50.00 | 0 | 85.9 | 74.1 | 114 | 12/28/2015 |
| Naphthalene | 10.0 | | **54.9** | 50.00 | 0 | 109.7 | 77.9 | 122 | 12/28/2015 |
| n-Butyl acetate | 25.0 | | **39.4** | 50.00 | 0 | 78.7 | 74 | 120 | 12/28/2015 |
| n-Butylbenzene | 5.0 | | **48.6** | 50.00 | 0 | 97.3 | 71.1 | 120 | 12/28/2015 |
| n-Heptane | 20.0 | | **43.3** | 50.00 | 0 | 86.6 | 67.4 | 129 | 12/28/2015 |
| n-Hexane | 20.0 | | **49.4** | 50.00 | 0 | 98.8 | 68.4 | 126 | 12/28/2015 |
| Nitrobenzene | 50.0 | | **536** | 500.0 | 0 | 107.3 | 37.9 | 181 | 12/28/2015 |
| n-Propylbenzene | 5.0 | | **47.7** | 50.00 | 0 | 95.5 | 74.6 | 118 | 12/28/2015 |
| o-Xylene | 5.0 | | **46.5** | 50.00 | 0 | 93.1 | 80.1 | 111 | 12/28/2015 |
| Pentachloroethane | 20.0 | | **53.8** | 50.00 | 0 | 107.7 | 78.8 | 117 | 12/28/2015 |
| p-Isopropyltoluene | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 77.6 | 118 | 12/28/2015 |
| Propionitrile | 50.0 | | **506** | 500.0 | 0 | 101.2 | 72.9 | 137 | 12/28/2015 |
| sec-Butylbenzene | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 74.5 | 119 | 12/28/2015 |
| Styrene | 5.0 | | **50.1** | 50.00 | 0 | 100.1 | 83.4 | 113 | 12/28/2015 |
| tert-Amyl methyl ether | 2.0 | | **46.1** | 50.00 | 0 | 92.1 | 78.7 | 117 | 12/28/2015 |
| tert-Butyl alcohol | 25.0 | | **271** | 250.0 | 0 | 108.3 | 58.1 | 139 | 12/28/2015 |
| tert-Butylbenzene | 5.0 | | **45.3** | 50.00 | 0 | 90.7 | 75.9 | 114 | 12/28/2015 |
| Tetrachloroethene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 72.5 | 125 | 12/28/2015 |
| Tetrahydrofuran | 20.0 | | **41.8** | 50.00 | 0 | 83.7 | 69.6 | 125 | 12/28/2015 |
| Toluene | 5.0 | | **47.6** | 50.00 | 0 | 95.3 | 77.5 | 113 | 12/28/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **47.7** | 50.00 | 0 | 95.4 | 79 | 114 | 12/28/2015 |
| trans-1,3-Dichloropropene | 5.0 | | **47.0** | 50.00 | 0 | 94.1 | 78 | 115 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115260** **SampType: LCS** Units **µg/L**

SampID: LCS-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **38.7** | 50.00 | 0 | 77.3 | 63.3 | 128 | 12/28/2015 |
| Trichloroethene | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 84.4 | 114 | 12/28/2015 |
| Trichlorofluoromethane | 5.0 | | **46.6** | 50.00 | 0 | 93.3 | 75.2 | 132 | 12/28/2015 |
| Vinyl acetate | 10.0 | | **44.0** | 50.00 | 0 | 87.9 | 64.5 | 127 | 12/28/2015 |
| Vinyl chloride | 2.0 | | **32.8** | 50.00 | 0 | 65.7 | 58 | 134 | 12/28/2015 |
| Xylenes, Total | 5.0 | | **142** | 150.0 | 0 | 94.6 | 80.1 | 111 | 12/28/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **92.3** | 100.0 | 0 | 92.3 | 78.2 | 116 | 12/28/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **96.6** | 100.0 | 0 | 96.6 | 78 | 119 | 12/28/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **79.2** | 100.0 | 0 | 79.2 | 60.7 | 137 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **39.9** | 50.00 | | 79.7 | 74.7 | 129 | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **44.1** | 50.00 | | 88.3 | 86 | 119 | 12/28/2015 |
| Surr: Toluene-d8 | | | **47.5** | 50.00 | | 95.0 | 84.1 | 114 | 12/28/2015 |

**Batch 115260** **SampType: LCSGD** Units **µg/L** RPD Limit **20**

SampID: LCSGD-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1710** | 2000 | 0 | 85.5 | 1762 | 3.02 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **39.9** | 50.00 | | 79.8 | | | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **45.2** | 50.00 | | 90.5 | | | 12/28/2015 |
| Surr: Toluene-d8 | | | **47.6** | 50.00 | | 95.3 | | | 12/28/2015 |

**Batch 115260** **SampType: LCSG** Units **µg/L**

SampID: LCSG-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1760** | 2000 | 0 | 88.1 | 70 | 130 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **40.1** | 50.00 | | 80.2 | 74.7 | 129 | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **45.0** | 50.00 | | 90.0 | 86 | 119 | 12/28/2015 |
| Surr: Toluene-d8 | | | **47.4** | 50.00 | | 94.8 | 84.3 | 114 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115155** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/22/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/22/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/22/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115155** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/22/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/22/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/22/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/22/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115155** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/22/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.4** | 50.00 | | 100.9 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.6** | 50.00 | | 101.1 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **51.6** | 50.00 | | 103.3 | 86 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115155** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **47.3** | 50.00 | 0 | 94.5 | 46.05 | 2.61 | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **44.3** | 50.00 | 0 | 88.6 | 43.91 | 0.88 | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **47.4** | 50.00 | 0 | 94.7 | 47.56 | 0.40 | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **43.4** | 50.00 | 0 | 86.8 | 42.83 | 1.37 | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **46.1** | 50.00 | 0 | 92.3 | 43.86 | 5.07 | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **113** | 125.0 | 0 | 90.1 | 112.5 | 0.05 | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **46.8** | 50.00 | 0 | 93.7 | 46.56 | 0.60 | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **46.3** | 50.00 | 0 | 92.6 | 46.19 | 0.24 | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **46.7** | 50.00 | 0 | 93.4 | 46.06 | 1.40 | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 49.93 | 1.23 | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **45.4** | 50.00 | 0 | 90.7 | 44.49 | 1.96 | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 48.70 | 2.21 | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 51.13 | 0.16 | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **50.5** | 50.00 | 0 | 100.9 | 49.95 | 1.04 | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **48.4** | 50.00 | 0 | 96.9 | 49.19 | 1.54 | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **46.9** | 50.00 | 0 | 93.8 | 45.64 | 2.68 | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 49.07 | 2.59 | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **44.9** | 50.00 | 0 | 89.8 | 44.08 | 1.80 | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **45.0** | 50.00 | 0 | 90.1 | 44.15 | 2.00 | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 50.21 | 1.99 | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 50.00 | 1.92 | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **45.6** | 50.00 | 0 | 91.1 | 44.33 | 2.76 | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 50.09 | 0.46 | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **44.8** | 50.00 | 0 | 89.7 | 44.34 | 1.12 | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **44.5** | 50.00 | 0 | 89.0 | 44.50 | 0.02 | 12/22/2015 |
| 2-Butanone | 50.0 | | **120** | 125.0 | 0 | 95.8 | 115.0 | 3.99 | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **49.1** | 50.00 | 0 | 98.1 | 48.93 | 0.27 | 12/22/2015 |
| 2-Hexanone | 50.0 | | **130** | 125.0 | 0 | 104.0 | 125.5 | 3.55 | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **470** | 500.0 | 0 | 93.9 | 453.5 | 3.47 | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **48.4** | 50.00 | 0 | 96.9 | 48.52 | 0.19 | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **120** | 125.0 | 0 | 95.7 | 115.5 | 3.45 | 12/22/2015 |
| Acetone | 50.0 | | **128** | 125.0 | 0 | 102.3 | 123.4 | 3.61 | 12/22/2015 |
| Acetonitrile | 100 | | **460** | 500.0 | 0 | 91.9 | 448.3 | 2.47 | 12/22/2015 |
| Acrolein | 100 | | **438** | 500.0 | 0 | 87.6 | 429.2 | 2.10 | 12/22/2015 |
| Acrylonitrile | 10.0 | | **45.5** | 50.00 | 0 | 91.0 | 44.34 | 2.63 | 12/22/2015 |
| Allyl chloride | 5.0 | | **46.1** | 50.00 | 0 | 92.1 | 46.08 | 0.02 | 12/22/2015 |
| Benzene | 1.0 | | **45.5** | 50.00 | 0 | 91.0 | 45.03 | 1.06 | 12/22/2015 |
| Bromobenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.3 | 48.25 | 1.83 | 12/22/2015 |
| Bromochloromethane | 5.0 | | **46.5** | 50.00 | 0 | 93.0 | 46.05 | 0.97 | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **45.3** | 50.00 | 0 | 90.6 | 43.91 | 3.09 | 12/22/2015 |
| Bromoform | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 48.28 | 2.09 | 12/22/2015 |
| Bromomethane | 10.0 | | **24.9** | 50.00 | 0 | 49.8 | 23.69 | 4.98 | 12/22/2015 |
| Carbon disulfide | 5.0 | | **43.7** | 50.00 | 0 | 87.5 | 43.77 | 0.09 | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **46.1** | 50.00 | 0 | 92.2 | 44.91 | 2.64 | 12/22/2015 |
| Chlorobenzene | 5.0 | | **47.8** | 50.00 | 0 | 95.5 | 46.13 | 3.47 | 12/22/2015 |
| Chloroethane | 10.0 | | **39.8** | 50.00 | 0 | 79.5 | 39.41 | 0.86 | 12/22/2015 |
| Chloroform | 5.0 | | **46.0** | 50.00 | 0 | 91.9 | 45.48 | 1.03 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115155** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **33.1** | 50.00 | 0 | 66.2 | 31.95 | 3.57 | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **47.2** | 50.00 | 0 | 94.3 | 46.83 | 0.70 | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **46.1** | 50.00 | 0 | 92.3 | 45.88 | 0.57 | 12/22/2015 |
| Cyclohexanone | 100 | | **456** | 500.0 | 0 | 91.2 | 445.6 | 2.34 | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 48.43 | 1.82 | 12/22/2015 |
| Dibromomethane | 5.0 | | **46.7** | 50.00 | 0 | 93.4 | 45.67 | 2.27 | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **18.7** | 50.00 | 0 | 37.4 | 19.64 | 4.85 | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **44.2** | 50.00 | 0 | 88.5 | 44.02 | 0.50 | 12/22/2015 |
| Ethyl ether | 5.0 | | **42.0** | 50.00 | 0 | 83.9 | 40.61 | 3.25 | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **49.0** | 50.00 | 0 | 97.9 | 47.24 | 3.56 | 12/22/2015 |
| Ethylbenzene | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 47.41 | 2.00 | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **44.9** | 50.00 | 0 | 89.9 | 43.82 | 2.52 | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 53.27 | 1.92 | 12/22/2015 |
| Hexachloroethane | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 51.84 | 1.85 | 12/22/2015 |
| Iodomethane | 10.0 | | **43.5** | 50.00 | 0 | 87.0 | 40.94 | 6.04 | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 48.67 | 3.27 | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **101** | 100.0 | 0 | 101.1 | 98.56 | 2.58 | 12/22/2015 |
| Methacrylonitrile | 50.0 | J | **47** | 50.00 | 0 | 94.5 | 45.55 | 0.00 | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **44.5** | 50.00 | 0 | 89.0 | 43.13 | 3.08 | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **43.2** | 50.00 | 0 | 86.5 | 41.68 | 3.67 | 12/22/2015 |
| Methylacrylate | 10.0 | | **45.3** | 50.00 | 0 | 90.6 | 44.55 | 1.63 | 12/22/2015 |
| Methylene chloride | 5.0 | | **44.4** | 50.00 | 0 | 88.9 | 43.45 | 2.23 | 12/22/2015 |
| Naphthalene | 10.0 | | **51.5** | 50.00 | 0 | 103.1 | 51.03 | 0.99 | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 52.99 | 1.31 | 12/22/2015 |
| n-Heptane | 20.0 | | **49.5** | 50.00 | 0 | 99.0 | 47.57 | 4.00 | 12/22/2015 |
| n-Hexane | 20.0 | | **46.8** | 50.00 | 0 | 93.6 | 45.05 | 3.77 | 12/22/2015 |
| Nitrobenzene | 100 | | **489** | 500.0 | 0 | 97.8 | 483.9 | 1.10 | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 50.05 | 0.28 | 12/22/2015 |
| o-Xylene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 48.34 | 2.77 | 12/22/2015 |
| Pentachloroethane | 5.0 | | **44.2** | 50.00 | 0 | 88.4 | 48.71 | 9.66 | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **52.6** | 50.00 | 0 | 105.1 | 52.02 | 1.03 | 12/22/2015 |
| Propionitrile | 50.0 | | **457** | 500.0 | 0 | 91.3 | 450.1 | 1.46 | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 50.08 | 0.64 | 12/22/2015 |
| Styrene | 5.0 | | **49.2** | 50.00 | 0 | 98.3 | 47.60 | 3.20 | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **44.8** | 50.00 | 0 | 89.5 | 43.75 | 2.26 | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **228** | 250.0 | 0 | 91.1 | 212.1 | 7.10 | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 50.13 | 0.66 | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 47.75 | 10.23 | 12/22/2015 |
| Tetrahydrofuran | 50.0 | J | **42** | 50.00 | 0 | 84.0 | 40.76 | 0.00 | 12/22/2015 |
| Toluene | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 46.73 | 2.22 | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **46.9** | 50.00 | 0 | 93.7 | 47.19 | 0.70 | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **49.1** | 50.00 | 0 | 98.2 | 48.01 | 2.27 | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 51.05 | 1.54 | 12/22/2015 |
| Trichloroethene | 5.0 | | **46.8** | 50.00 | 0 | 93.7 | 45.71 | 2.44 | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **44.0** | 50.00 | 0 | 88.0 | 43.86 | 0.30 | 12/22/2015 |
| Vinyl acetate | 50.0 | J | **45** | 50.00 | 0 | 90.1 | 44.65 | 0.00 | 12/22/2015 |
| Vinyl chloride | 2.0 | | **38.4** | 50.00 | 0 | 76.8 | 37.09 | 3.44 | 12/22/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115155** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **151** | 150.0 | 0 | 100.6 | 146.9 | 2.65 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.3** | 50.00 | | 96.7 | | | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.0** | 50.00 | | 99.9 | | | 12/22/2015 |
| Surr: Toluene-d8 | | | **51.3** | 50.00 | | 102.6 | | | 12/22/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121500

**Client Project:** NGA 2015-0461.21

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115155** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **46.0** | 50.00 | 0 | 92.1 | 83.1 | 114 | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **43.9** | 50.00 | 0 | 87.8 | 78.5 | 119 | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **47.6** | 50.00 | 0 | 95.1 | 67.4 | 120 | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **42.8** | 50.00 | 0 | 85.7 | 75.4 | 121 | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **43.9** | 50.00 | 0 | 87.7 | 81.1 | 111 | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **113** | 125.0 | 0 | 90.0 | 55.4 | 131 | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **46.6** | 50.00 | 0 | 93.1 | 80.1 | 116 | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **46.2** | 50.00 | 0 | 92.4 | 73.1 | 121 | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **46.1** | 50.00 | 0 | 92.1 | 82.2 | 114 | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 81.7 | 130 | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **44.5** | 50.00 | 0 | 89.0 | 67.8 | 118 | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 82.1 | 127 | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **51.1** | 50.00 | 0 | 102.3 | 72.3 | 141 | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 79.7 | 123 | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 62.1 | 123 | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **45.6** | 50.00 | 0 | 91.3 | 82.4 | 112 | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.1 | 82.7 | 119 | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **44.1** | 50.00 | 0 | 88.2 | 72.8 | 120 | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **44.2** | 50.00 | 0 | 88.3 | 80 | 116 | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 81.5 | 125 | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 82 | 124 | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **44.3** | 50.00 | 0 | 88.7 | 79.8 | 113 | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 81.1 | 124 | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **44.3** | 50.00 | 0 | 88.7 | 77.2 | 113 | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **44.5** | 50.00 | 0 | 89.0 | 76.6 | 121 | 12/22/2015 |
| 2-Butanone | 50.0 | | **115** | 125.0 | 0 | 92.0 | 62.8 | 131 | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **48.9** | 50.00 | 0 | 97.9 | 78.8 | 121 | 12/22/2015 |
| 2-Hexanone | 50.0 | | **125** | 125.0 | 0 | 100.4 | 63.1 | 125 | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **454** | 500.0 | 0 | 90.7 | 61.2 | 129 | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 77.6 | 124 | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **116** | 125.0 | 0 | 92.4 | 60.6 | 126 | 12/22/2015 |
| Acetone | 50.0 | | **123** | 125.0 | 0 | 98.7 | 39.5 | 159 | 12/22/2015 |
| Acetonitrile | 100 | | **448** | 500.0 | 0 | 89.7 | 64.8 | 123 | 12/22/2015 |
| Acrolein | 100 | | **429** | 500.0 | 0 | 85.8 | 1 | 167 | 12/22/2015 |
| Acrylonitrile | 10.0 | | **44.3** | 50.00 | 0 | 88.7 | 67 | 124 | 12/22/2015 |
| Allyl chloride | 5.0 | | **46.1** | 50.00 | 0 | 92.2 | 58.5 | 129 | 12/22/2015 |
| Benzene | 1.0 | | **45.0** | 50.00 | 0 | 90.1 | 80.8 | 117 | 12/22/2015 |
| Bromobenzene | 5.0 | | **48.2** | 50.00 | 0 | 96.5 | 79.6 | 117 | 12/22/2015 |
| Bromochloromethane | 5.0 | | **46.0** | 50.00 | 0 | 92.1 | 70.7 | 121 | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **43.9** | 50.00 | 0 | 87.8 | 80.7 | 121 | 12/22/2015 |
| Bromoform | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 79.8 | 118 | 12/22/2015 |
| Bromomethane | 10.0 | | **23.7** | 50.00 | 0 | 47.4 | 1 | 175 | 12/22/2015 |
| Carbon disulfide | 5.0 | | **43.8** | 50.00 | 0 | 87.5 | 62.8 | 123 | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **44.9** | 50.00 | 0 | 89.8 | 77.6 | 123 | 12/22/2015 |
| Chlorobenzene | 5.0 | | **46.1** | 50.00 | 0 | 92.3 | 85.6 | 116 | 12/22/2015 |
| Chloroethane | 10.0 | | **39.4** | 50.00 | 0 | 78.8 | 60.2 | 125 | 12/22/2015 |
| Chloroform | 5.0 | | **45.5** | 50.00 | 0 | 91.0 | 77.9 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115155** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **32.0** | 50.00 | 0 | 63.9 | 29.9 | 157 | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **46.8** | 50.00 | 0 | 93.7 | 80.1 | 116 | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **45.9** | 50.00 | 0 | 91.8 | 80.5 | 121 | 12/22/2015 |
| Cyclohexanone | 100 | | **446** | 500.0 | 0 | 89.1 | 45.4 | 128 | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **48.4** | 50.00 | 0 | 96.9 | 84.3 | 116 | 12/22/2015 |
| Dibromomethane | 5.0 | | **45.7** | 50.00 | 0 | 91.3 | 76.6 | 115 | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **19.6** | 50.00 | 0 | 39.3 | 1 | 200 | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **44.0** | 50.00 | 0 | 88.0 | 73.6 | 119 | 12/22/2015 |
| Ethyl ether | 5.0 | | **40.6** | 50.00 | 0 | 81.2 | 73.4 | 116 | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **47.2** | 50.00 | 0 | 94.5 | 76.2 | 120 | 12/22/2015 |
| Ethylbenzene | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 84.8 | 116 | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **43.8** | 50.00 | 0 | 87.6 | 73.8 | 119 | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 74 | 135 | 12/22/2015 |
| Hexachloroethane | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 76.4 | 121 | 12/22/2015 |
| Iodomethane | 10.0 | | **40.9** | 50.00 | 0 | 81.9 | 38.7 | 161 | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 85 | 125 | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **98.6** | 100.0 | 0 | 98.6 | 85.3 | 120 | 12/22/2015 |
| Methacrylonitrile | 50.0 | J | **46** | 50.00 | 0 | 91.1 | 65.7 | 120 | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **43.1** | 50.00 | 0 | 86.3 | 69.1 | 114 | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **41.7** | 50.00 | 0 | 83.4 | 66.6 | 125 | 12/22/2015 |
| Methylacrylate | 10.0 | | **44.6** | 50.00 | 0 | 89.1 | 69.7 | 121 | 12/22/2015 |
| Methylene chloride | 5.0 | | **43.4** | 50.00 | 0 | 86.9 | 73.4 | 115 | 12/22/2015 |
| Naphthalene | 10.0 | | **51.0** | 50.00 | 0 | 102.1 | 70.1 | 134 | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **53.0** | 50.00 | 0 | 106.0 | 78.4 | 138 | 12/22/2015 |
| n-Heptane | 20.0 | | **47.6** | 50.00 | 0 | 95.1 | 74.3 | 125 | 12/22/2015 |
| n-Hexane | 20.0 | | **45.0** | 50.00 | 0 | 90.1 | 66.3 | 129 | 12/22/2015 |
| Nitrobenzene | 100 | | **484** | 500.0 | 0 | 96.8 | 20.1 | 165 | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 79.1 | 125 | 12/22/2015 |
| o-Xylene | 5.0 | | **48.3** | 50.00 | 0 | 96.7 | 81.9 | 118 | 12/22/2015 |
| Pentachloroethane | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 72.7 | 123 | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 82.7 | 129 | 12/22/2015 |
| Propionitrile | 50.0 | | **450** | 500.0 | 0 | 90.0 | 64.3 | 121 | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 81.3 | 125 | 12/22/2015 |
| Styrene | 5.0 | | **47.6** | 50.00 | 0 | 95.2 | 88.2 | 122 | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **43.8** | 50.00 | 0 | 87.5 | 74.5 | 120 | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **212** | 250.0 | 0 | 84.8 | 51.3 | 129 | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **50.1** | 50.00 | 0 | 100.3 | 74.8 | 125 | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **47.8** | 50.00 | 0 | 95.5 | 84.2 | 122 | 12/22/2015 |
| Tetrahydrofuran | 50.0 | J | **41** | 50.00 | 0 | 81.5 | 61 | 118 | 12/22/2015 |
| Toluene | 5.0 | | **46.7** | 50.00 | 0 | 93.5 | 81.3 | 113 | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **47.2** | 50.00 | 0 | 94.4 | 78.2 | 118 | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **48.0** | 50.00 | 0 | 96.0 | 81.7 | 124 | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **51.0** | 50.00 | 0 | 102.1 | 63.9 | 117 | 12/22/2015 |
| Trichloroethene | 5.0 | | **45.7** | 50.00 | 0 | 91.4 | 81 | 123 | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **43.9** | 50.00 | 0 | 87.7 | 66.8 | 131 | 12/22/2015 |
| Vinyl acetate | 50.0 | J | **45** | 50.00 | 0 | 89.3 | 64.3 | 122 | 12/22/2015 |
| Vinyl chloride | 2.0 | | **37.1** | 50.00 | 0 | 74.2 | 45.2 | 140 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115155** **SampType: LCS** Units **µg/Kg**

SampID: LCS-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **147** | 150.0 | 0 | 97.9 | 85.3 | 118 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.1** | 50.00 | | 98.1 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.8** | 50.00 | | 101.6 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **51.2** | 50.00 | | 102.5 | 86 | 116 | 12/22/2015 |

**Batch 115155** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1740** | 2000 | 0 | 86.8 | 1866 | 7.22 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.6** | 50.00 | | 97.1 | | | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.3 | | | 12/22/2015 |
| Surr: Toluene-d8 | | | **52.8** | 50.00 | | 105.5 | | | 12/22/2015 |

**Batch 115155** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1870** | 2000 | 0 | 93.3 | 70 | 130 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.8** | 50.00 | | 99.7 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.4 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **53.0** | 50.00 | | 105.9 | 86 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/22/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/22/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/22/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/22/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/22/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/22/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/22/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/22/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.8** | 50.00 | | 99.6 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **51.0** | 50.00 | | 101.9 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **48.6** | 50.00 | | 97.2 | 86 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121500

**Client Project:** NGA 2015-0461.21

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 83.1 | 114 | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **55.9** | 50.00 | 0 | 111.7 | 78.5 | 119 | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 67.4 | 120 | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **56.6** | 50.00 | 0 | 113.1 | 75.4 | 121 | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 81.1 | 111 | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **118** | 125.0 | 0 | 94.5 | 55.4 | 131 | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 80.1 | 116 | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 73.1 | 121 | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **56.7** | 50.00 | 0 | 113.4 | 82.2 | 114 | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 81.7 | 130 | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **48.8** | 50.00 | 0 | 97.7 | 67.8 | 118 | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 82.1 | 127 | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **59.2** | 50.00 | 0 | 118.4 | 72.3 | 141 | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **56.0** | 50.00 | 0 | 112.0 | 79.7 | 123 | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **45.8** | 50.00 | 0 | 91.5 | 62.1 | 123 | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.3** | 50.00 | 0 | 96.5 | 82.4 | 112 | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 82.7 | 119 | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 72.8 | 120 | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **53.3** | 50.00 | 0 | 106.7 | 80 | 116 | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 81.5 | 125 | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 82 | 124 | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 79.8 | 113 | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 81.1 | 124 | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 77.2 | 113 | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **56.7** | 50.00 | 0 | 113.5 | 76.6 | 121 | 12/22/2015 |
| 2-Butanone | 50.0 | | **137** | 125.0 | 0 | 109.4 | 62.8 | 131 | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 78.8 | 121 | 12/22/2015 |
| 2-Hexanone | 50.0 | | **127** | 125.0 | 0 | 101.8 | 63.1 | 125 | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **575** | 500.0 | 0 | 114.9 | 61.2 | 129 | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **56.5** | 50.00 | 0 | 113.1 | 77.6 | 124 | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **121** | 125.0 | 0 | 97.1 | 60.6 | 126 | 12/22/2015 |
| Acetone | 50.0 | | **157** | 125.0 | 0 | 125.4 | 39.5 | 159 | 12/22/2015 |
| Acetonitrile | 100 | | **541** | 500.0 | 0 | 108.2 | 64.8 | 123 | 12/22/2015 |
| Acrolein | 100 | | **518** | 500.0 | 0 | 103.7 | 1 | 167 | 12/22/2015 |
| Acrylonitrile | 10.0 | | **46.6** | 50.00 | 0 | 93.3 | 67 | 124 | 12/22/2015 |
| Allyl chloride | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 58.5 | 129 | 12/22/2015 |
| Benzene | 1.0 | | **55.3** | 50.00 | 0 | 110.5 | 80.8 | 117 | 12/22/2015 |
| Bromobenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 79.6 | 117 | 12/22/2015 |
| Bromochloromethane | 5.0 | | **52.6** | 50.00 | 0 | 105.1 | 70.7 | 121 | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 80.7 | 121 | 12/22/2015 |
| Bromoform | 5.0 | | **55.3** | 50.00 | 0 | 110.5 | 79.8 | 118 | 12/22/2015 |
| Bromomethane | 10.0 | | **45.3** | 50.00 | 0 | 90.6 | 1 | 175 | 12/22/2015 |
| Carbon disulfide | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 62.8 | 123 | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **57.5** | 50.00 | 0 | 115.1 | 77.6 | 123 | 12/22/2015 |
| Chlorobenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 85.6 | 116 | 12/22/2015 |
| Chloroethane | 10.0 | | **51.4** | 50.00 | 0 | 102.9 | 60.2 | 125 | 12/22/2015 |
| Chloroform | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 77.9 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **38.0** | 50.00 | 0 | 75.9 | 29.9 | 157 | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 80.1 | 116 | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **55.0** | 50.00 | 0 | 110.1 | 80.5 | 121 | 12/22/2015 |
| Cyclohexanone | 100 | | **454** | 500.0 | 0 | 90.9 | 45.4 | 128 | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 84.3 | 116 | 12/22/2015 |
| Dibromomethane | 5.0 | | **53.1** | 50.00 | 0 | 106.1 | 76.6 | 115 | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **30.4** | 50.00 | 0 | 60.9 | 1 | 200 | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 73.6 | 119 | 12/22/2015 |
| Ethyl ether | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 73.4 | 116 | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 76.2 | 120 | 12/22/2015 |
| Ethylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 84.8 | 116 | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 73.8 | 119 | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **58.0** | 50.00 | 0 | 116.0 | 74 | 135 | 12/22/2015 |
| Hexachloroethane | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 76.4 | 121 | 12/22/2015 |
| Iodomethane | 10.0 | | **55.8** | 50.00 | 0 | 111.6 | 38.7 | 161 | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 85 | 125 | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **111** | 100.0 | 0 | 110.5 | 85.3 | 120 | 12/22/2015 |
| Methacrylonitrile | 50.0 | | **50.7** | 50.00 | 0 | 101.5 | 65.7 | 120 | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 69.1 | 114 | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **49.6** | 50.00 | 0 | 99.1 | 66.6 | 125 | 12/22/2015 |
| Methylacrylate | 10.0 | | **54.7** | 50.00 | 0 | 109.4 | 69.7 | 121 | 12/22/2015 |
| Methylene chloride | 5.0 | | **53.7** | 50.00 | 0 | 107.5 | 73.4 | 115 | 12/22/2015 |
| Naphthalene | 10.0 | | **50.6** | 50.00 | 0 | 101.3 | 70.1 | 134 | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **58.4** | 50.00 | 0 | 116.9 | 78.4 | 138 | 12/22/2015 |
| n-Heptane | 20.0 | | **57.8** | 50.00 | 0 | 115.6 | 74.3 | 125 | 12/22/2015 |
| n-Hexane | 20.0 | | **57.5** | 50.00 | 0 | 114.9 | 66.3 | 129 | 12/22/2015 |
| Nitrobenzene | 100 | | **488** | 500.0 | 0 | 97.6 | 20.1 | 165 | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **56.5** | 50.00 | 0 | 112.9 | 79.1 | 125 | 12/22/2015 |
| o-Xylene | 5.0 | | **54.6** | 50.00 | 0 | 109.3 | 81.9 | 118 | 12/22/2015 |
| Pentachloroethane | 5.0 | | **57.4** | 50.00 | 0 | 114.9 | 72.7 | 123 | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 82.7 | 129 | 12/22/2015 |
| Propionitrile | 50.0 | | **533** | 500.0 | 0 | 106.5 | 64.3 | 121 | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 81.3 | 125 | 12/22/2015 |
| Styrene | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 88.2 | 122 | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 74.5 | 120 | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **260** | 250.0 | 0 | 103.9 | 51.3 | 129 | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 74.8 | 125 | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 84.2 | 122 | 12/22/2015 |
| Tetrahydrofuran | 50.0 | | **50.8** | 50.00 | 0 | 101.6 | 61 | 118 | 12/22/2015 |
| Toluene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 81.3 | 113 | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.6** | 50.00 | 0 | 109.1 | 78.2 | 118 | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.6** | 50.00 | 0 | 105.3 | 81.7 | 124 | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 63.9 | 117 | 12/22/2015 |
| Trichloroethene | 5.0 | | **56.6** | 50.00 | 0 | 113.2 | 81 | 123 | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 66.8 | 131 | 12/22/2015 |
| Vinyl acetate | 50.0 | | **53.9** | 50.00 | 0 | 107.8 | 64.3 | 122 | 12/22/2015 |
| Vinyl chloride | 2.0 | | **46.1** | 50.00 | 0 | 92.2 | 45.2 | 140 | 12/22/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **165** | 150.0 | 0 | 110.1 | 85.3 | 118 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.3** | 50.00 | | 98.6 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.2** | 50.00 | | 100.5 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **46.8** | 50.00 | | 93.5 | 86 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 51.62 | 3.55 | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 55.86 | 5.37 | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.6** | 50.00 | 0 | 97.1 | 48.91 | 0.70 | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 56.55 | 6.63 | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 49.38 | 0.81 | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **124** | 125.0 | 0 | 99.1 | 118.1 | 4.77 | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 53.62 | 5.17 | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **50.9** | 50.00 | 0 | 101.7 | 53.76 | 5.54 | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 56.69 | 6.01 | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 55.80 | 3.06 | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **48.4** | 50.00 | 0 | 96.9 | 48.83 | 0.82 | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 50.32 | 3.17 | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 59.22 | 5.43 | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 55.99 | 4.70 | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 45.75 | 2.89 | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 48.27 | 0.06 | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 54.21 | 4.89 | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 53.10 | 2.04 | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 53.34 | 2.20 | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 53.45 | 5.24 | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 55.80 | 4.70 | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.2** | 50.00 | 0 | 98.5 | 49.75 | 1.05 | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 56.10 | 4.78 | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **52.2** | 50.00 | 0 | 104.5 | 54.62 | 4.44 | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 56.74 | 6.08 | 12/22/2015 |
| 2-Butanone | 50.0 | | **122** | 125.0 | 0 | 97.6 | 136.8 | 11.38 | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 55.30 | 5.58 | 12/22/2015 |
| 2-Hexanone | 50.0 | | **114** | 125.0 | 0 | 91.5 | 127.3 | 10.73 | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **592** | 500.0 | 0 | 118.4 | 574.6 | 3.02 | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **52.7** | 50.00 | 0 | 105.5 | 56.54 | 6.97 | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **124** | 125.0 | 0 | 99.4 | 121.3 | 2.33 | 12/22/2015 |
| Acetone | 50.0 | | **121** | 125.0 | 0 | 96.6 | 156.7 | 25.95 | 12/22/2015 |
| Acetonitrile | 100 | | **554** | 500.0 | 0 | 110.9 | 541.0 | 2.43 | 12/22/2015 |
| Acrolein | 100 | | **496** | 500.0 | 0 | 99.2 | 518.4 | 4.45 | 12/22/2015 |
| Acrylonitrile | 10.0 | | **50.7** | 50.00 | 0 | 101.3 | 46.63 | 8.30 | 12/22/2015 |
| Allyl chloride | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 52.38 | 3.18 | 12/22/2015 |
| Benzene | 1.0 | | **53.2** | 50.00 | 0 | 106.4 | 55.27 | 3.78 | 12/22/2015 |
| Bromobenzene | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 50.92 | 4.09 | 12/22/2015 |
| Bromochloromethane | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 52.56 | 1.75 | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 53.68 | 2.55 | 12/22/2015 |
| Bromoform | 5.0 | | **54.8** | 50.00 | 0 | 109.6 | 55.26 | 0.82 | 12/22/2015 |
| Bromomethane | 10.0 | | **43.7** | 50.00 | 0 | 87.4 | 45.31 | 3.62 | 12/22/2015 |
| Carbon disulfide | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 51.99 | 5.82 | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 57.54 | 5.59 | 12/22/2015 |
| Chlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 54.16 | 3.17 | 12/22/2015 |
| Chloroethane | 10.0 | | **48.4** | 50.00 | 0 | 96.7 | 51.45 | 6.19 | 12/22/2015 |
| Chloroform | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 54.41 | 4.28 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **36.1** | 50.00 | 0 | 72.1 | 37.96 | 5.11 | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 54.28 | 4.46 | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **53.7** | 50.00 | 0 | 107.4 | 55.03 | 2.47 | 12/22/2015 |
| Cyclohexanone | 100 | | **476** | 500.0 | 0 | 95.2 | 454.4 | 4.70 | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 52.09 | 0.83 | 12/22/2015 |
| Dibromomethane | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 53.06 | 1.63 | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **28.0** | 50.00 | 0 | 56.0 | 30.43 | 8.35 | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 49.63 | 2.67 | 12/22/2015 |
| Ethyl ether | 5.0 | | **48.2** | 50.00 | 0 | 96.3 | 48.99 | 1.73 | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 50.41 | 0.55 | 12/22/2015 |
| Ethylbenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 51.80 | 4.14 | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 50.41 | 2.23 | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 58.02 | 6.64 | 12/22/2015 |
| Hexachloroethane | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 53.26 | 4.34 | 12/22/2015 |
| Iodomethane | 10.0 | | **52.8** | 50.00 | 0 | 105.6 | 55.79 | 5.49 | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 52.77 | 4.44 | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **106** | 100.0 | 0 | 106.0 | 110.5 | 4.18 | 12/22/2015 |
| Methacrylonitrile | 50.0 | | **51.4** | 50.00 | 0 | 102.7 | 50.74 | 1.20 | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 52.15 | 1.43 | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **49.3** | 50.00 | 0 | 98.6 | 49.55 | 0.55 | 12/22/2015 |
| Methylacrylate | 10.0 | | **55.7** | 50.00 | 0 | 111.4 | 54.72 | 1.78 | 12/22/2015 |
| Methylene chloride | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 53.74 | 4.84 | 12/22/2015 |
| Naphthalene | 10.0 | | **50.1** | 50.00 | 0 | 100.2 | 50.63 | 1.05 | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **55.1** | 50.00 | 0 | 110.1 | 58.45 | 5.95 | 12/22/2015 |
| n-Heptane | 20.0 | | **54.3** | 50.00 | 0 | 108.7 | 57.78 | 6.14 | 12/22/2015 |
| n-Hexane | 20.0 | | **53.6** | 50.00 | 0 | 107.2 | 57.47 | 7.01 | 12/22/2015 |
| Nitrobenzene | 100 | | **497** | 500.0 | 0 | 99.4 | 487.8 | 1.89 | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 56.46 | 5.81 | 12/22/2015 |
| o-Xylene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 54.65 | 3.29 | 12/22/2015 |
| Pentachloroethane | 5.0 | | **55.7** | 50.00 | 0 | 111.3 | 57.44 | 3.13 | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 54.38 | 5.11 | 12/22/2015 |
| Propionitrile | 50.0 | | **553** | 500.0 | 0 | 110.6 | 532.6 | 3.78 | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 53.32 | 4.90 | 12/22/2015 |
| Styrene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 55.60 | 2.88 | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 50.91 | 1.27 | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **275** | 250.0 | 0 | 110.0 | 259.6 | 5.73 | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **51.3** | 50.00 | 0 | 102.5 | 54.60 | 6.29 | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **46.0** | 50.00 | 0 | 92.0 | 49.30 | 6.90 | 12/22/2015 |
| Tetrahydrofuran | 50.0 | | **51.6** | 50.00 | 0 | 103.2 | 50.79 | 1.54 | 12/22/2015 |
| Toluene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 51.90 | 2.77 | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 54.55 | 4.56 | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.2** | 50.00 | 0 | 104.3 | 52.64 | 0.94 | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 50.09 | 0.32 | 12/22/2015 |
| Trichloroethene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 56.60 | 4.11 | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 53.69 | 6.74 | 12/22/2015 |
| Vinyl acetate | 50.0 | | **55.7** | 50.00 | 0 | 111.5 | 53.91 | 3.32 | 12/22/2015 |
| Vinyl chloride | 2.0 | | **43.0** | 50.00 | 0 | 86.1 | 46.11 | 6.91 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115156** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **159** | 150.0 | 0 | 105.9 | 165.2 | 3.88 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.4** | 50.00 | | 98.8 | | | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.9** | 50.00 | | 99.9 | | | 12/22/2015 |
| Surr: Toluene-d8 | | | **47.4** | 50.00 | | 94.8 | | | 12/22/2015 |

**Batch 115156** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1850** | 2000 | 0 | 92.5 | 70 | 130 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.2** | 50.00 | | 98.4 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **51.9** | 50.00 | | 103.8 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **49.3** | 50.00 | | 98.6 | 86 | 116 | 12/22/2015 |

**Batch 115156** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1910** | 2000 | 0 | 95.4 | 1850 | 3.12 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.6** | 50.00 | | 99.2 | | | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.5** | 50.00 | | 101.0 | | | 12/22/2015 |
| Surr: Toluene-d8 | | | **49.1** | 50.00 | | 98.2 | | | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/23/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/23/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/23/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/23/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/23/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/23/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/23/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/23/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/23/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/23/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/23/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/23/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/23/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/23/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.7** | 50.00 | | 101.5 | 72.2 | 131 | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.0** | 50.00 | | 98.0 | 82.1 | 116 | 12/23/2015 |
| Surr: Toluene-d8 | | | **48.0** | 50.00 | | 96.1 | 86 | 116 | 12/23/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121500

**Client Project:** NGA 2015-0461.21

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 83.1 | 114 | 12/23/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 78.5 | 119 | 12/23/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **45.0** | 50.00 | 0 | 90.1 | 67.4 | 120 | 12/23/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 75.4 | 121 | 12/23/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **46.3** | 50.00 | 0 | 92.6 | 81.1 | 111 | 12/23/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **112** | 125.0 | 0 | 89.9 | 55.4 | 131 | 12/23/2015 |
| 1,1-Dichloroethane | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 80.1 | 116 | 12/23/2015 |
| 1,1-Dichloroethene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 73.1 | 121 | 12/23/2015 |
| 1,1-Dichloropropene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 82.2 | 114 | 12/23/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 81.7 | 130 | 12/23/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **45.4** | 50.00 | 0 | 90.7 | 67.8 | 118 | 12/23/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **46.2** | 50.00 | 0 | 92.3 | 82.1 | 127 | 12/23/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 72.3 | 141 | 12/23/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 79.7 | 123 | 12/23/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **43.7** | 50.00 | 0 | 87.4 | 62.1 | 123 | 12/23/2015 |
| 1,2-Dibromoethane | 5.0 | | **44.8** | 50.00 | 0 | 89.7 | 82.4 | 112 | 12/23/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 82.7 | 119 | 12/23/2015 |
| 1,2-Dichloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.7 | 72.8 | 120 | 12/23/2015 |
| 1,2-Dichloropropane | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 80 | 116 | 12/23/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 81.5 | 125 | 12/23/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 82 | 124 | 12/23/2015 |
| 1,3-Dichloropropane | 5.0 | | **45.9** | 50.00 | 0 | 91.8 | 79.8 | 113 | 12/23/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.3 | 81.1 | 124 | 12/23/2015 |
| 1-Chlorobutane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 77.2 | 113 | 12/23/2015 |
| 2,2-Dichloropropane | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 76.6 | 121 | 12/23/2015 |
| 2-Butanone | 50.0 | | **133** | 125.0 | 0 | 106.2 | 62.8 | 131 | 12/23/2015 |
| 2-Chlorotoluene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 78.8 | 121 | 12/23/2015 |
| 2-Hexanone | 50.0 | | **127** | 125.0 | 0 | 101.3 | 63.1 | 125 | 12/23/2015 |
| 2-Nitropropane | 50.0 | | **547** | 500.0 | 0 | 109.5 | 61.2 | 129 | 12/23/2015 |
| 4-Chlorotoluene | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 77.6 | 124 | 12/23/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **114** | 125.0 | 0 | 91.6 | 60.6 | 126 | 12/23/2015 |
| Acetone | 50.0 | | **155** | 125.0 | 0 | 124.3 | 39.5 | 159 | 12/23/2015 |
| Acetonitrile | 100 | | **518** | 500.0 | 0 | 103.5 | 64.8 | 123 | 12/23/2015 |
| Acrolein | 100 | | **557** | 500.0 | 0 | 111.3 | 1 | 167 | 12/23/2015 |
| Acrylonitrile | 10.0 | | **48.1** | 50.00 | 0 | 96.2 | 67 | 124 | 12/23/2015 |
| Allyl chloride | 5.0 | | **47.9** | 50.00 | 0 | 95.7 | 58.5 | 129 | 12/23/2015 |
| Benzene | 1.0 | | **51.5** | 50.00 | 0 | 102.9 | 80.8 | 117 | 12/23/2015 |
| Bromobenzene | 5.0 | | **47.0** | 50.00 | 0 | 94.0 | 79.6 | 117 | 12/23/2015 |
| Bromochloromethane | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 70.7 | 121 | 12/23/2015 |
| Bromodichloromethane | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 80.7 | 121 | 12/23/2015 |
| Bromoform | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 79.8 | 118 | 12/23/2015 |
| Bromomethane | 10.0 | | **45.8** | 50.00 | 0 | 91.6 | 1 | 175 | 12/23/2015 |
| Carbon disulfide | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 62.8 | 123 | 12/23/2015 |
| Carbon tetrachloride | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 77.6 | 123 | 12/23/2015 |
| Chlorobenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.9 | 85.6 | 116 | 12/23/2015 |
| Chloroethane | 10.0 | | **45.6** | 50.00 | 0 | 91.2 | 60.2 | 125 | 12/23/2015 |
| Chloroform | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 77.9 | 116 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **34.0** | 50.00 | 0 | 67.9 | 29.9 | 157 | 12/23/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **51.0** | 50.00 | 0 | 102.1 | 80.1 | 116 | 12/23/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **51.6** | 50.00 | 0 | 103.2 | 80.5 | 121 | 12/23/2015 |
| Cyclohexanone | 100 | | **440** | 500.0 | 0 | 88.0 | 45.4 | 128 | 12/23/2015 |
| Dibromochloromethane | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 84.3 | 116 | 12/23/2015 |
| Dibromomethane | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 76.6 | 115 | 12/23/2015 |
| Dichlorodifluoromethane | 10.0 | | **23.5** | 50.00 | 0 | 47.0 | 1 | 200 | 12/23/2015 |
| Diisopropyl ether | 5.0 | | **46.8** | 50.00 | 0 | 93.5 | 73.6 | 119 | 12/23/2015 |
| Ethyl ether | 5.0 | | **45.6** | 50.00 | 0 | 91.2 | 73.4 | 116 | 12/23/2015 |
| Ethyl methacrylate | 5.0 | | **46.7** | 50.00 | 0 | 93.3 | 76.2 | 120 | 12/23/2015 |
| Ethylbenzene | 5.0 | | **48.6** | 50.00 | 0 | 97.3 | 84.8 | 116 | 12/23/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 73.8 | 119 | 12/23/2015 |
| Hexachlorobutadiene | 5.0 | | **50.9** | 50.00 | 0 | 101.9 | 74 | 135 | 12/23/2015 |
| Hexachloroethane | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 76.4 | 121 | 12/23/2015 |
| Iodomethane | 10.0 | | **51.7** | 50.00 | 0 | 103.4 | 38.7 | 161 | 12/23/2015 |
| Isopropylbenzene | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 85 | 125 | 12/23/2015 |
| m,p-Xylenes | 5.0 | | **103** | 100.0 | 0 | 103.0 | 85.3 | 120 | 12/23/2015 |
| Methacrylonitrile | 50.0 | J | **48** | 50.00 | 0 | 95.4 | 65.7 | 120 | 12/23/2015 |
| Methyl Methacrylate | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 69.1 | 114 | 12/23/2015 |
| Methyl tert-butyl ether | 2.0 | | **46.3** | 50.00 | 0 | 92.6 | 66.6 | 125 | 12/23/2015 |
| Methylacrylate | 10.0 | | **50.1** | 50.00 | 0 | 100.2 | 69.7 | 121 | 12/23/2015 |
| Methylene chloride | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 73.4 | 115 | 12/23/2015 |
| Naphthalene | 10.0 | | **45.2** | 50.00 | 0 | 90.5 | 70.1 | 134 | 12/23/2015 |
| n-Butylbenzene | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 78.4 | 138 | 12/23/2015 |
| n-Heptane | 20.0 | | **54.5** | 50.00 | 0 | 109.1 | 74.3 | 125 | 12/23/2015 |
| n-Hexane | 20.0 | | **52.3** | 50.00 | 0 | 104.6 | 66.3 | 129 | 12/23/2015 |
| Nitrobenzene | 100 | | **422** | 500.0 | 0 | 84.4 | 20.1 | 165 | 12/23/2015 |
| n-Propylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 79.1 | 125 | 12/23/2015 |
| o-Xylene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 81.9 | 118 | 12/23/2015 |
| Pentachloroethane | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 72.7 | 123 | 12/23/2015 |
| p-Isopropyltoluene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 82.7 | 129 | 12/23/2015 |
| Propionitrile | 50.0 | | **510** | 500.0 | 0 | 102.0 | 64.3 | 121 | 12/23/2015 |
| sec-Butylbenzene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 81.3 | 125 | 12/23/2015 |
| Styrene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 88.2 | 122 | 12/23/2015 |
| tert-Amyl methyl ether | 5.0 | | **47.8** | 50.00 | 0 | 95.5 | 74.5 | 120 | 12/23/2015 |
| tert-Butyl alcohol | 50.0 | | **249** | 250.0 | 0 | 99.6 | 51.3 | 129 | 12/23/2015 |
| tert-Butylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 74.8 | 125 | 12/23/2015 |
| Tetrachloroethene | 5.0 | | **47.4** | 50.00 | 0 | 94.7 | 84.2 | 122 | 12/23/2015 |
| Tetrahydrofuran | 50.0 | J | **48** | 50.00 | 0 | 95.1 | 61 | 118 | 12/23/2015 |
| Toluene | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 81.3 | 113 | 12/23/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **51.3** | 50.00 | 0 | 102.5 | 78.2 | 118 | 12/23/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **48.5** | 50.00 | 0 | 97.0 | 81.7 | 124 | 12/23/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 63.9 | 117 | 12/23/2015 |
| Trichloroethene | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 81 | 123 | 12/23/2015 |
| Trichlorofluoromethane | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 66.8 | 131 | 12/23/2015 |
| Vinyl acetate | 50.0 | | **51.1** | 50.00 | 0 | 102.1 | 64.3 | 122 | 12/23/2015 |
| Vinyl chloride | 2.0 | | **42.2** | 50.00 | 0 | 84.3 | 45.2 | 140 | 12/23/2015 |

# Quality Control Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **154** | 150.0 | 0 | 102.7 | 85.3 | 118 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.0** | 50.00 | | 98.1 | 72.2 | 131 | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.3 | 82.1 | 116 | 12/23/2015 |
| Surr: Toluene-d8 | | | **47.1** | 50.00 | | 94.2 | 86 | 116 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 47.91 | 5.48 | 12/23/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **55.3** | 50.00 | 0 | 110.5 | 52.51 | 5.12 | 12/23/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 45.05 | 6.38 | 12/23/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 51.25 | 4.28 | 12/23/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 46.31 | 7.86 | 12/23/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **122** | 125.0 | 0 | 97.8 | 112.3 | 8.51 | 12/23/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 50.00 | 7.10 | 12/23/2015 |
| 1,1-Dichloroethene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 50.08 | 6.27 | 12/23/2015 |
| 1,1-Dichloropropene | 5.0 | | **55.0** | 50.00 | 0 | 110.0 | 52.47 | 4.73 | 12/23/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 49.69 | 7.25 | 12/23/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **48.3** | 50.00 | 0 | 96.6 | 45.36 | 6.26 | 12/23/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 46.17 | 4.94 | 12/23/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **55.1** | 50.00 | 0 | 110.3 | 52.13 | 5.59 | 12/23/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 51.36 | 2.67 | 12/23/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 43.70 | 8.08 | 12/23/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 44.85 | 7.16 | 12/23/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.1 | 48.75 | 5.56 | 12/23/2015 |
| 1,2-Dichloroethane | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 50.34 | 6.76 | 12/23/2015 |
| 1,2-Dichloropropane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 50.26 | 6.58 | 12/23/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 49.53 | 2.33 | 12/23/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 51.57 | 1.71 | 12/23/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 45.88 | 7.59 | 12/23/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 50.66 | 3.55 | 12/23/2015 |
| 1-Chlorobutane | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 51.61 | 4.30 | 12/23/2015 |
| 2,2-Dichloropropane | 5.0 | | **56.8** | 50.00 | 0 | 113.6 | 52.78 | 7.30 | 12/23/2015 |
| 2-Butanone | 50.0 | | **141** | 125.0 | 0 | 113.1 | 132.8 | 6.27 | 12/23/2015 |
| 2-Chlorotoluene | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 50.30 | 2.75 | 12/23/2015 |
| 2-Hexanone | 50.0 | | **129** | 125.0 | 0 | 103.1 | 126.6 | 1.79 | 12/23/2015 |
| 2-Nitropropane | 50.0 | | **611** | 500.0 | 0 | 122.2 | 547.3 | 11.01 | 12/23/2015 |
| 4-Chlorotoluene | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 51.18 | 2.89 | 12/23/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **124** | 125.0 | 0 | 99.1 | 114.5 | 7.84 | 12/23/2015 |
| Acetone | 50.0 | | **156** | 125.0 | 0 | 125.1 | 155.3 | 0.67 | 12/23/2015 |
| Acetonitrile | 100 | | **578** | 500.0 | 0 | 115.7 | 517.7 | 11.06 | 12/23/2015 |
| Acrolein | 100 | | **538** | 500.0 | 0 | 107.6 | 556.7 | 3.46 | 12/23/2015 |
| Acrylonitrile | 10.0 | | **54.0** | 50.00 | 0 | 108.0 | 48.11 | 11.54 | 12/23/2015 |
| Allyl chloride | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 47.87 | 5.78 | 12/23/2015 |
| Benzene | 1.0 | | **54.8** | 50.00 | 0 | 109.6 | 51.46 | 6.27 | 12/23/2015 |
| Bromobenzene | 5.0 | | **48.5** | 50.00 | 0 | 96.9 | 47.02 | 3.02 | 12/23/2015 |
| Bromochloromethane | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 50.24 | 7.68 | 12/23/2015 |
| Bromodichloromethane | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 50.57 | 6.95 | 12/23/2015 |
| Bromoform | 5.0 | | **55.5** | 50.00 | 0 | 110.9 | 51.18 | 8.03 | 12/23/2015 |
| Bromomethane | 10.0 | | **48.1** | 50.00 | 0 | 96.2 | 45.79 | 4.94 | 12/23/2015 |
| Carbon disulfide | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 47.48 | 4.79 | 12/23/2015 |
| Carbon tetrachloride | 5.0 | | **56.9** | 50.00 | 0 | 113.7 | 53.05 | 6.93 | 12/23/2015 |
| Chlorobenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 50.43 | 3.91 | 12/23/2015 |
| Chloroethane | 10.0 | | **48.9** | 50.00 | 0 | 97.8 | 45.60 | 6.96 | 12/23/2015 |
| Chloroform | 5.0 | | **54.1** | 50.00 | 0 | 108.3 | 50.91 | 6.13 | 12/23/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **36.8** | 50.00 | 0 | 73.6 | 33.97 | 8.02 | 12/23/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 51.05 | 6.06 | 12/23/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **55.7** | 50.00 | 0 | 111.3 | 51.61 | 7.55 | 12/23/2015 |
| Cyclohexanone | 100 | | **479** | 500.0 | 0 | 95.8 | 440.0 | 8.49 | 12/23/2015 |
| Dibromochloromethane | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 47.79 | 7.78 | 12/23/2015 |
| Dibromomethane | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 49.04 | 8.94 | 12/23/2015 |
| Dichlorodifluoromethane | 10.0 | | **23.8** | 50.00 | 0 | 47.7 | 23.50 | 1.44 | 12/23/2015 |
| Diisopropyl ether | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 46.77 | 7.09 | 12/23/2015 |
| Ethyl ether | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 45.58 | 7.29 | 12/23/2015 |
| Ethyl methacrylate | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 46.67 | 8.00 | 12/23/2015 |
| Ethylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 48.65 | 4.11 | 12/23/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 47.09 | 7.87 | 12/23/2015 |
| Hexachlorobutadiene | 5.0 | | **54.1** | 50.00 | 0 | 108.3 | 50.94 | 6.07 | 12/23/2015 |
| Hexachloroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 49.58 | 3.16 | 12/23/2015 |
| Iodomethane | 10.0 | | **54.6** | 50.00 | 0 | 109.1 | 51.68 | 5.40 | 12/23/2015 |
| Isopropylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 49.49 | 5.25 | 12/23/2015 |
| m,p-Xylenes | 5.0 | | **109** | 100.0 | 0 | 109.0 | 103.0 | 5.60 | 12/23/2015 |
| Methacrylonitrile | 50.0 | | **53.2** | 50.00 | 0 | 106.3 | 47.72 | 10.80 | 12/23/2015 |
| Methyl Methacrylate | 5.0 | | **54.1** | 50.00 | 0 | 108.1 | 49.42 | 8.99 | 12/23/2015 |
| Methyl tert-butyl ether | 2.0 | | **50.5** | 50.00 | 0 | 101.0 | 46.29 | 8.72 | 12/23/2015 |
| Methylacrylate | 10.0 | | **56.8** | 50.00 | 0 | 113.6 | 50.11 | 12.55 | 12/23/2015 |
| Methylene chloride | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 50.59 | 7.83 | 12/23/2015 |
| Naphthalene | 10.0 | | **49.7** | 50.00 | 0 | 99.4 | 45.25 | 9.33 | 12/23/2015 |
| n-Butylbenzene | 5.0 | | **54.7** | 50.00 | 0 | 109.3 | 53.81 | 1.57 | 12/23/2015 |
| n-Heptane | 20.0 | | **55.0** | 50.00 | 0 | 110.0 | 54.54 | 0.82 | 12/23/2015 |
| n-Hexane | 20.0 | | **53.5** | 50.00 | 0 | 107.0 | 52.30 | 2.29 | 12/23/2015 |
| Nitrobenzene | 100 | | **485** | 500.0 | 0 | 97.0 | 422.0 | 13.88 | 12/23/2015 |
| n-Propylbenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 51.44 | 2.61 | 12/23/2015 |
| o-Xylene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 51.00 | 5.73 | 12/23/2015 |
| Pentachloroethane | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 50.98 | 5.61 | 12/23/2015 |
| p-Isopropyltoluene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 50.72 | 2.09 | 12/23/2015 |
| Propionitrile | 50.0 | | **571** | 500.0 | 0 | 114.2 | 509.9 | 11.27 | 12/23/2015 |
| sec-Butylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 49.38 | 3.95 | 12/23/2015 |
| Styrene | 5.0 | | **55.1** | 50.00 | 0 | 110.3 | 51.79 | 6.25 | 12/23/2015 |
| tert-Amyl methyl ether | 5.0 | | **51.9** | 50.00 | 0 | 103.7 | 47.75 | 8.25 | 12/23/2015 |
| tert-Butyl alcohol | 50.0 | | **284** | 250.0 | 0 | 113.7 | 249.0 | 13.21 | 12/23/2015 |
| tert-Butylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 50.74 | 2.74 | 12/23/2015 |
| Tetrachloroethene | 5.0 | | **46.4** | 50.00 | 0 | 92.8 | 47.35 | 2.01 | 12/23/2015 |
| Tetrahydrofuran | 50.0 | | **54.0** | 50.00 | 0 | 108.1 | 47.55 | 12.78 | 12/23/2015 |
| Toluene | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 48.39 | 4.92 | 12/23/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 51.27 | 5.22 | 12/23/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.0** | 50.00 | 0 | 104.1 | 48.48 | 7.10 | 12/23/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 46.82 | 3.87 | 12/23/2015 |
| Trichloroethene | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 53.08 | 4.42 | 12/23/2015 |
| Trichlorofluoromethane | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 48.30 | 6.95 | 12/23/2015 |
| Vinyl acetate | 50.0 | | **58.4** | 50.00 | 0 | 116.7 | 51.07 | 13.34 | 12/23/2015 |
| Vinyl chloride | 2.0 | | **44.7** | 50.00 | 0 | 89.5 | 42.16 | 5.92 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115190** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **163** | 150.0 | 0 | 108.7 | 154.0 | 5.65 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.6** | 50.00 | | 101.1 | | | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.9** | 50.00 | | 99.8 | | | 12/23/2015 |
| Surr: Toluene-d8 | | | **47.2** | 50.00 | | 94.3 | | | 12/23/2015 |

**Batch 115190** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1840** | 2000 | 0 | 91.9 | 70 | 130 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.5** | 50.00 | | 100.9 | 72.2 | 131 | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.8** | 50.00 | | 99.6 | 82.1 | 116 | 12/23/2015 |
| Surr: Toluene-d8 | | | **48.7** | 50.00 | | 97.4 | 86 | 116 | 12/23/2015 |

**Batch 115190** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1730** | 2000 | 0 | 86.6 | 1839 | 5.99 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.7** | 50.00 | | 101.5 | | | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.5** | 50.00 | | 99.1 | | | 12/23/2015 |
| Surr: Toluene-d8 | | | **48.3** | 50.00 | | 96.6 | | | 12/23/2015 |

# Receiving Check List

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

**Carrier:** Anthony Kimutis

**Received By:** KF

**Completed by:** M. Kaminski
**On:** 21-Dec-15
Mary Anne Kaminski

**Reviewed by:** Elizabeth A. Hurley
**On:** 21-Dec-15
Elizabeth A. Hurley

**Pages to follow:** Chain of custody 3 Extra pages included 0

| | | | | | |
|---|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ | Temp °C | 15.42 |
| Type of thermal preservation? | None ☐ | Ice ☑ | Blue Ice ☐ | Dry Ice | ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | | | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | | | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | | | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | | | |
| Sample containers intact? | Yes ☑ | No ☐ | | | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | | | |
| All samples received within holding time? | Yes ☑ | No ☐ | | | |
| Reported field parameters measured: | Field ☐ | Lab ☐ | NA ☑ | | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | | | |

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

| | | | |
|---|---|---|---|
| Water – at least one vial per sample has zero headspace? | Yes ☑ | No ☐ | No VOA vials ☐ |
| Water - TOX containers have zero headspace? | Yes ☐ | No ☐ | No TOX containers ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | NA ☐ |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes ☐ | No ☐ | NA ☑ |

**Any No responses must be detailed below or on the COC.**

# CHAIN OF CUSTODY

pg. 1 of 3 Work order # 15121500

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☐ ICE ☐ BLUE ICE ☐ NO ICE 15.42 °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Client Comments:**
Meet MRBCA DTLs.
1 equipment blank and 2 trip blanks (1 per cooler) included.
Duplicate Sample included as "SCI-27D".

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

Courier

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15121500 001 | EB-2 | 12-21-15 2:30 pm | | | | | | | | 2 | | X | | | | | | | | X |
| 002 | TB-2 | 8:00 am | | | | | | | | 2 | | X | | | | | | | | X |
| 003 | TB-3 | 8:00 am | | | | | | | | 2 | | X | | | | | | | | X |
| 004 | SCI-20A (0-3) | 9:00 am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 005 | SCI-20B (12-16) | 9:00 am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 006 | SCI-21A (0-3) | 8:30 am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 007 | SCI-21B (4-8) | 8:30 am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 008 | SCI-22A (0-3) | 9:40 am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 009 | SCI-22B (8-12) | 9:40 am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 010 | SCI-23A (0-3) | 10:45 am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 12-21-15 4:15 pm | | 12/21/15 1615 |
| | 12/21/15 1635 | Kalyn Soeder | 12/21/15 1635 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

# CHAIN OF CUSTODY

pg. 2 of 3 Work order # 15121500

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**

**Client Comments:**

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☒ No BC 12-21-2015

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15121500 011 | SCI-23B (8-12) | 12-21-15 10:45am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 012 | SCI-24A (0-3) | 11:15am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 013 | SCI-24B (4-8) | 11:15am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 014 | SCI-25A (0-3) | 11:45am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 015 | SCI-25B (16-20) | 11:45am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 016 | SCI-26A (0-3) | 12:50pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 017 | SCI-26B (4-8) | 12:50pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 018 | SCI-27A (0-3) | 1:30pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 019 | SCI-27B (16-20) | 1:30pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 020 | SCI-28A (0-3) | 2:10pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 12-21-15 4:15pm | | 12/21/15 1615 |
| | 12/21/15 1635 | Kaly Jolche | 12/21/15 1635 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

# CHAIN OF CUSTODY

pg. 3 of 3 Work order # 15121500

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**

**Client Comments:**

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15121500 021 | SCI-28B (16-20) | 12-21-15 2:10 pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 022 | SCI-27D (16-20) | 1:30 pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 023 | SCI-29A (0-3) | 3:30 pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 024 | SCI-29B (4-8) | 3:30 pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 12-21-15 4:15 pm | [signature] | 12/21/15 1615 |
| [signature] | 12/21/15 1635 | Kelly Steele | 12/21/15 1635 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

December 29, 2015

Ben Butterfield
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301
TEL: (618) 206-3028
FAX: (636) 949-8269

**RE:** NGA 2015-0461.21 **WorkOrder:** 15121579

Dear Ben Butterfield:

TEKLAB, INC received 25 samples on 12/22/2015 5:00:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Project Manager
(618)344-1004 ex 16
MAustin@teklabinc.com

# Report Contents

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121579
**Report Date:** 29-Dec-15

**This reporting package includes the following:**


| | |
|---|---|
| Cover Letter | 1 |
| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 4 |
| Laboratory Results | 5 |
| Quality Control Results | 80 |
| Receiving Check List | 115 |
| Chain of Custody | Appended |

# Definitions

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## Abbr Definition

| | |
|---|---|
| CCV | Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration. |
| DF | Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors. |
| DNI | Did not ignite |
| DUP | Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. |
| ICV | Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated. |
| IDPH | IL Dept. of Public Health |
| LCS | Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request). |
| LCSD | Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MBLK | Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses. |
| MDL | Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. |
| MS | Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MSD | Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MW | Molecular weight |
| ND | Not Detected at the Reporting Limit |
| NELAP | NELAP Accredited |
| PQL | Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request). |
| RL | The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL. |
| RPD | Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request). |
| SPK | The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. |
| Surr | Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. |
| TIC | Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET" |
| TNTC | Too numerous to count ( > 200 CFU ) |

## Qualifiers

| | | | |
|---|---|---|---|
| # - | Unknown hydrocarbon | B - | Analyte detected in associated Method Blank |
| E - | Value above quantitation range | H - | Holding times exceeded |
| I - | Associated internal standard was outside method criteria | J - | Analyte detected below quantitation limits |
| M - | Manual Integration used to determine area response | ND - | Not Detected at the Reporting Limit |
| R - | RPD outside accepted recovery limits | S - | Spike Recovery outside recovery limits |
| T - | TIC(Tentatively identified compound) | X - | Value exceeds Maximum Contaminant Level |

# Case Narrative

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121579
**Report Date:** 29-Dec-15

**Cooler Receipt Temp:** 8.62 °C

## Locations and Accreditations

| | Collinsville | Springfield | Kansas City | Collinsville Air |
|---|---|---|---|---|
| Address | 5445 Horseshoe Lake Road | 3920 Pintail Dr | 8421 Nieman Road | 5445 Horseshoe Lake Road |
| | Collinsville, IL 62234-7425 | Springfield, IL 62711-9415 | Lenexa, KS 66214 | Collinsville, IL 62234-7425 |
| Phone | (618) 344-1004 | (217) 698-1004 | (913) 541-1998 | (618) 344-1004 |
| Fax | (618) 344-1005 | (217) 698-1005 | (913) 541-1998 | (618) 344-1005 |
| Email | jhriley@teklabinc.com | KKlostermann@teklabinc.com | dthompson@teklabinc.com | EHurley@teklabinc.com |

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|---|---|---|---|---|---|
| Illinois | IEPA | 100226 | NELAP | 1/31/2017 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 1/31/2016 | Collinsville |
| Louisiana | LDEQ | 166493 | NELAP | 6/30/2016 | Collinsville |
| Louisiana | LDEQ | 166578 | NELAP | 6/30/2016 | Collinsville |
| Texas | TCEQ | T104704515-12-1 | NELAP | 7/31/2016 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2016 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2017 | Collinsville |
| Kentucky | KDEP | 98006 | | 12/31/2015 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2016 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2017 | Collinsville |
| Oklahoma | ODEQ | 9978 | | 8/31/2016 | Collinsville |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-001
**Client Sample ID:** TB-4
**Matrix:** TRIP BLANK
**Collection Date:** 12/22/2015 17:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-001
**Client Sample ID:** TB-4
**Matrix:** TRIP BLANK
**Collection Date:** 12/22/2015 17:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Methylene chloride | NELAP | 5.0 | J | **1.2** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-001
**Client Sample ID:** TB-4
**Matrix:** TRIP BLANK
**Collection Date:** 12/22/2015 17:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:52 | 115257 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **99.4** | %REC | 1 | 12/28/2015 18:52 | 115257 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **100.9** | %REC | 1 | 12/28/2015 18:52 | 115257 |
| Surr: Toluene-d8 | | 84.3-114 | | **101.8** | %REC | 1 | 12/28/2015 18:52 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-002
**Client Sample ID:** TB-5
**Matrix:** TRIP BLANK
**Collection Date:** 12/22/2015 17:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-002
**Client Sample ID:** TB-5
**Matrix:** TRIP BLANK
**Collection Date:** 12/22/2015 17:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-002
**Client Sample ID:** TB-5
**Matrix:** TRIP BLANK
**Collection Date:** 12/22/2015 17:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:18 | 115257 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **101.0** | %REC | 1 | 12/28/2015 19:18 | 115257 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **100.4** | %REC | 1 | 12/28/2015 19:18 | 115257 |
| Surr: Toluene-d8 | | 84.3-114 | | **103.1** | %REC | 1 | 12/28/2015 19:18 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-003
**Client Sample ID:** EB-3
**Matrix:** AQUEOUS
**Collection Date:** 12/22/2015 15:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-003
**Client Sample ID:** EB-3
**Matrix:** AQUEOUS
**Collection Date:** 12/22/2015 15:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-003
**Client Sample ID:** EB-3
**Matrix:** AQUEOUS
**Collection Date:** 12/22/2015 15:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 19:44 | 115257 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **102.1** | %REC | 1 | 12/28/2015 19:44 | 115257 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **100.2** | %REC | 1 | 12/28/2015 19:44 | 115257 |
| Surr: Toluene-d8 | | 84.3-114 | | **103.5** | %REC | 1 | 12/28/2015 19:44 | 115257 |

# Laboratory Results

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**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121579-004 **Client Sample ID:** SCI-30A (0-3)

**Matrix:** SOLID **Collection Date:** 12/22/2015 8:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.2** | % | 1 | 12/28/2015 18:32 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **9.12** | mg/Kg-dry | 1 | 12/24/2015 14:00 | 115193 |
| Barium | NELAP | 0.23 | | **155** | mg/Kg-dry | 1 | 12/24/2015 14:00 | 115193 |
| Cadmium | NELAP | 0.19 | | **0.75** | mg/Kg-dry | 1 | 12/24/2015 14:00 | 115193 |
| Chromium | NELAP | 0.46 | | **18.6** | mg/Kg-dry | 1 | 12/24/2015 14:00 | 115193 |
| Lead | NELAP | 1.39 | | **140** | mg/Kg-dry | 1 | 12/24/2015 14:00 | 115193 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 12/24/2015 14:00 | 115193 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 12/24/2015 14:00 | 115193 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.194** | mg/Kg-dry | 1 | 12/24/2015 9:33 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.418 | | **0.639** | mg/Kg-dry | 10 | 12/28/2015 12:18 | 115161 |
| Anthracene | NELAP | 0.418 | | **1.78** | mg/Kg-dry | 10 | 12/28/2015 12:18 | 115161 |
| Benzo(a)anthracene | NELAP | 0.418 | | **3.94** | mg/Kg-dry | 10 | 12/28/2015 12:18 | 115161 |
| Benzo(a)pyrene | NELAP | 0.418 | | **4.96** | mg/Kg-dry | 10 | 12/28/2015 12:18 | 115161 |
| Benzo(b)fluoranthene | NELAP | 0.418 | | **6.48** | mg/Kg-dry | 10 | 12/28/2015 12:18 | 115161 |
| Benzo(k)fluoranthene | NELAP | 0.418 | | **2.23** | mg/Kg-dry | 10 | 12/28/2015 12:18 | 115161 |
| Chrysene | NELAP | 0.418 | | **3.59** | mg/Kg-dry | 10 | 12/28/2015 12:18 | 115161 |
| Dibenzo(a,h)anthracene | NELAP | 0.418 | | **0.537** | mg/Kg-dry | 10 | 12/28/2015 12:18 | 115161 |
| Fluoranthene | NELAP | 0.418 | | **8.41** | mg/Kg-dry | 10 | 12/28/2015 12:18 | 115161 |
| Fluorene | NELAP | 0.418 | | **0.553** | mg/Kg-dry | 10 | 12/28/2015 12:18 | 115161 |
| Pyrene | NELAP | 0.418 | | **7.20** | mg/Kg-dry | 10 | 12/28/2015 12:18 | 115161 |
| TPH-DRO (C10 - C21) | | 148 | J | **82** | mg/Kg-dry | 10 | 12/28/2015 12:18 | 115161 |
| TPH-ORO (C21 - C35) | | 148 | J | **140** | mg/Kg-dry | 10 | 12/28/2015 12:18 | 115161 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **67.1** | %REC | 10 | 12/28/2015 12:18 | 115161 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **54.3** | %REC | 10 | 12/28/2015 12:18 | 115161 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **83.4** | %REC | 10 | 12/28/2015 12:18 | 115161 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,1-Dichloro-2-propanone | | 46.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,2,3-Trichloropropane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-004
**Client Sample ID:** SCI-30A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 8:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 2-Butanone | NELAP | 46.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 2-Hexanone | NELAP | 46.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 2-Nitropropane | NELAP | 46.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| 4-Methyl-2-pentanone | NELAP | 46.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Acetone | NELAP | 46.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Acetonitrile | NELAP | 93.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Acrolein | NELAP | 93.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Acrylonitrile | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Bromomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Chloroethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Chloromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Cyclohexanone | | 93.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Dichlorodifluoromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Iodomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-004
**Client Sample ID:** SCI-30A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 8:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 46.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Methylacrylate | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Methylene chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Naphthalene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| n-Heptane | | 18.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| n-Hexane | | 18.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Nitrobenzene | NELAP | 93.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Propionitrile | NELAP | 46.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| tert-Butyl alcohol | NELAP | 46.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Tetrahydrofuran | NELAP | 46.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| TPH - GRO (C6 - C10) | | 466 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Vinyl acetate | NELAP | 46.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:09 | 115190 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **106.7** | %REC | 1 | 12/23/2015 14:09 | 115190 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **114.8** | %REC | 1 | 12/23/2015 14:09 | 115190 |
| Surr: Toluene-d8 | | 86-116 | | **102.0** | %REC | 1 | 12/23/2015 14:09 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-005
**Client Sample ID:** SCI-30B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 8:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.6** | % | 1 | 12/28/2015 18:32 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **5.95** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115193 |
| Barium | NELAP | 0.24 | | **164** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115193 |
| Cadmium | NELAP | 0.19 | | **0.24** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115193 |
| Chromium | NELAP | 0.47 | | **19.8** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115193 |
| Lead | NELAP | 1.42 | | **8.46** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115193 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115193 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115193 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.027** | mg/Kg-dry | 1 | 12/24/2015 9:35 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:45 | 115161 |
| Anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:45 | 115161 |
| Benzo(a)anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:45 | 115161 |
| Benzo(a)pyrene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:45 | 115161 |
| Benzo(b)fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:45 | 115161 |
| Benzo(k)fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:45 | 115161 |
| Chrysene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:45 | 115161 |
| Dibenzo(a,h)anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:45 | 115161 |
| Fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:45 | 115161 |
| Fluorene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:45 | 115161 |
| Pyrene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:45 | 115161 |
| TPH-DRO (C10 - C21) | | 15.2 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:45 | 115161 |
| TPH-ORO (C21 - C35) | | 15.2 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:45 | 115161 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **69.9** | %REC | 1 | 12/24/2015 14:45 | 115161 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **64.9** | %REC | 1 | 12/24/2015 14:45 | 115161 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **82.6** | %REC | 1 | 12/24/2015 14:45 | 115161 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,1-Dichloro-2-propanone | | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,2,3-Trichloropropane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,2-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-005
**Client Sample ID:** SCI-30B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 8:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 2-Butanone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 2-Hexanone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 2-Nitropropane | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| 4-Methyl-2-pentanone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Acetone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Acetonitrile | NELAP | 90.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Acrolein | NELAP | 90.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Acrylonitrile | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Bromomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Chloroethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Chloromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Cyclohexanone | | 90.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Dichlorodifluoromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Iodomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Methacrylonitrile | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-005
**Client Sample ID:** SCI-30B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 8:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Methylacrylate | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Naphthalene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| n-Heptane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| n-Hexane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Nitrobenzene | NELAP | 90.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Propionitrile | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| tert-Butyl alcohol | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Tetrahydrofuran | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| TPH - GRO (C6 - C10) | | 453 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Vinyl acetate | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:35 | 115190 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **98.1** | %REC | 1 | 12/23/2015 14:35 | 115190 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.4** | %REC | 1 | 12/23/2015 14:35 | 115190 |
| Surr: Toluene-d8 | | 86-116 | | **99.3** | %REC | 1 | 12/23/2015 14:35 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-006
**Client Sample ID:** SCI-30D (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 8:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.2** | % | 1 | 12/28/2015 18:33 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **6.46** | mg/Kg-dry | 1 | 12/24/2015 16:52 | 115198 |
| Barium | NELAP | 0.23 | | **182** | mg/Kg-dry | 1 | 12/24/2015 16:52 | 115198 |
| Cadmium | NELAP | 0.18 | J | **0.12** | mg/Kg-dry | 1 | 12/24/2015 16:52 | 115198 |
| Chromium | NELAP | 0.45 | | **20.6** | mg/Kg-dry | 1 | 12/24/2015 16:52 | 115198 |
| Lead | NELAP | 1.36 | | **8.91** | mg/Kg-dry | 1 | 12/24/2015 16:52 | 115198 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 12/24/2015 16:52 | 115198 |
| Silver | NELAP | 0.45 | | **< 0.45** | mg/Kg-dry | 1 | 12/24/2015 16:52 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.013** | mg/Kg-dry | 1 | 12/24/2015 9:42 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:15 | 115161 |
| Anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:15 | 115161 |
| Benzo(a)anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:15 | 115161 |
| Benzo(a)pyrene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:15 | 115161 |
| Benzo(b)fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:15 | 115161 |
| Benzo(k)fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:15 | 115161 |
| Chrysene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:15 | 115161 |
| Dibenzo(a,h)anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:15 | 115161 |
| Fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:15 | 115161 |
| Fluorene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:15 | 115161 |
| Pyrene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:15 | 115161 |
| TPH-DRO (C10 - C21) | | 15.1 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:15 | 115161 |
| TPH-ORO (C21 - C35) | | 15.1 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:15 | 115161 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **62.4** | %REC | 1 | 12/24/2015 15:15 | 115161 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **56.6** | %REC | 1 | 12/24/2015 15:15 | 115161 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **78.2** | %REC | 1 | 12/24/2015 15:15 | 115161 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,1-Dichloro-2-propanone | | 44.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,2,3-Trichloropropane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121579-006
**Matrix:** SOLID

**Work Order:** 15121579
**Report Date:** 29-Dec-15
**Client Sample ID:** SCI-30D (16-20)
**Collection Date:** 12/22/2015 8:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 2-Butanone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 2-Hexanone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 2-Nitropropane | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| 4-Methyl-2-pentanone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Acetone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Acetonitrile | NELAP | 87.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Acrolein | NELAP | 87.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Acrylonitrile | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Bromomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Chloroethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Chloromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Cyclohexanone | | 87.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Dichlorodifluoromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Iodomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Methacrylonitrile | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-006
**Client Sample ID:** SCI-30D (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 8:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Methylacrylate | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Naphthalene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| n-Heptane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| n-Hexane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Nitrobenzene | NELAP | 87.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Propionitrile | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| tert-Butyl alcohol | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Tetrahydrofuran | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| TPH - GRO (C6 - C10) | | 440 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Vinyl acetate | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:01 | 115190 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **107.7** | %REC | 1 | 12/23/2015 15:01 | 115190 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **97.0** | %REC | 1 | 12/23/2015 15:01 | 115190 |
| Surr: Toluene-d8 | | 86-116 | | **95.5** | %REC | 1 | 12/23/2015 15:01 | 115190 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-007
**Client Sample ID:** SCI-31A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 9:20

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.6** | % | 1 | 12/28/2015 18:33 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **8.97** | mg/Kg-dry | 1 | 12/24/2015 16:58 | 115198 |
| Barium | NELAP | 0.25 | | **188** | mg/Kg-dry | 1 | 12/24/2015 16:58 | 115198 |
| Cadmium | NELAP | 0.20 | | **0.72** | mg/Kg-dry | 1 | 12/24/2015 16:58 | 115198 |
| Chromium | NELAP | 0.50 | | **19.6** | mg/Kg-dry | 1 | 12/24/2015 16:58 | 115198 |
| Lead | NELAP | 1.50 | | **140** | mg/Kg-dry | 1 | 12/24/2015 16:58 | 115198 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 16:58 | 115198 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 12/24/2015 16:58 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.096** | mg/Kg-dry | 1 | 12/24/2015 9:44 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/25/2015 0:10 | 115161 |
| Anthracene | NELAP | 0.0412 | J | **0.035** | mg/Kg-dry | 1 | 12/25/2015 0:10 | 115161 |
| Benzo(a)anthracene | NELAP | 0.0412 | | **0.156** | mg/Kg-dry | 1 | 12/25/2015 0:10 | 115161 |
| Benzo(a)pyrene | NELAP | 0.0412 | | **0.144** | mg/Kg-dry | 1 | 12/25/2015 0:10 | 115161 |
| Benzo(b)fluoranthene | NELAP | 0.0412 | | **0.190** | mg/Kg-dry | 1 | 12/25/2015 0:10 | 115161 |
| Benzo(k)fluoranthene | NELAP | 0.0412 | | **0.0646** | mg/Kg-dry | 1 | 12/25/2015 0:10 | 115161 |
| Chrysene | NELAP | 0.0412 | | **0.154** | mg/Kg-dry | 1 | 12/25/2015 0:10 | 115161 |
| Dibenzo(a,h)anthracene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/25/2015 0:10 | 115161 |
| Fluoranthene | NELAP | 0.0412 | | **0.344** | mg/Kg-dry | 1 | 12/25/2015 0:10 | 115161 |
| Fluorene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/25/2015 0:10 | 115161 |
| Pyrene | NELAP | 0.0412 | | **0.306** | mg/Kg-dry | 1 | 12/25/2015 0:10 | 115161 |
| TPH-DRO (C10 - C21) | | 14.5 | J | **7.5** | mg/Kg-dry | 1 | 12/25/2015 0:10 | 115161 |
| TPH-ORO (C21 - C35) | | 14.5 | J | **10** | mg/Kg-dry | 1 | 12/25/2015 0:10 | 115161 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **64.9** | %REC | 1 | 12/25/2015 0:10 | 115161 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **58.7** | %REC | 1 | 12/25/2015 0:10 | 115161 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **76.0** | %REC | 1 | 12/25/2015 0:10 | 115161 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,1,1-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,1,2-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,1-Dichloro-2-propanone | | 41.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,1-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,1-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,1-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,2,3-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,2,3-Trichloropropane | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,2,3-Trimethylbenzene | | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,2,4-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,2,4-Trimethylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,2-Dibromoethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,2-Dichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,2-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-007
**Client Sample ID:** SCI-31A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 9:20

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,3,5-Trimethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,3-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,3-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1,4-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 1-Chlorobutane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 2,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 2-Butanone | NELAP | 41.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 2-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 2-Hexanone | NELAP | 41.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 2-Nitropropane | NELAP | 41.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 4-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| 4-Methyl-2-pentanone | NELAP | 41.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Acetone | NELAP | 41.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Acetonitrile | NELAP | 82.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Acrolein | NELAP | 82.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Acrylonitrile | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Allyl chloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Bromobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Bromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Bromodichloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Bromoform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Bromomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Carbon disulfide | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Carbon tetrachloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Chlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Chloroethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Chloroform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Chloromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| cis-1,2-Dichloroethene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| cis-1,3-Dichloropropene | NELAP | 3.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Cyclohexanone | | 82.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Dibromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Dibromomethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Dichlorodifluoromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Diisopropyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Ethyl ether | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Ethyl methacrylate | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Ethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Ethyl-tert-butyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Hexachlorobutadiene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Hexachloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Iodomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Isopropylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| m,p-Xylenes | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Methacrylonitrile | NELAP | 41.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-007
**Client Sample ID:** SCI-31A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 9:20

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Methylacrylate | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Methylene chloride | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Naphthalene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| n-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| n-Heptane | | 16.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| n-Hexane | | 16.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Nitrobenzene | NELAP | 82.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| n-Propylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| o-Xylene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Pentachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| p-Isopropyltoluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Propionitrile | NELAP | 41.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| sec-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Styrene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| tert-Amyl methyl ether | | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| tert-Butyl alcohol | NELAP | 41.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| tert-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Tetrachloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Tetrahydrofuran | NELAP | 41.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Toluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| TPH - GRO (C6 - C10) | | 414 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| trans-1,2-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| trans-1,3-Dichloropropene | NELAP | 3.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Trichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Trichlorofluoromethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Vinyl acetate | NELAP | 41.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Xylenes, Total | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:27 | 115190 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **112.5** | %REC | 1 | 12/23/2015 15:27 | 115190 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.9** | %REC | 1 | 12/23/2015 15:27 | 115190 |
| Surr: Toluene-d8 | | 86-116 | | **95.4** | %REC | 1 | 12/23/2015 15:27 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-008
**Client Sample ID:** SCI-31B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 9:20

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.7** | % | 1 | 12/28/2015 18:44 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **6.39** | mg/Kg-dry | 1 | 12/24/2015 17:16 | 115198 |
| Barium | NELAP | 0.25 | | **185** | mg/Kg-dry | 1 | 12/24/2015 17:16 | 115198 |
| Cadmium | NELAP | 0.20 | J | **0.11** | mg/Kg-dry | 1 | 12/24/2015 17:16 | 115198 |
| Chromium | NELAP | 0.50 | | **13.0** | mg/Kg-dry | 1 | 12/24/2015 17:16 | 115198 |
| Lead | NELAP | 1.50 | | **12.5** | mg/Kg-dry | 1 | 12/24/2015 17:16 | 115198 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 17:16 | 115198 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 12/24/2015 17:16 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | J | **0.010** | mg/Kg-dry | 1 | 12/24/2015 9:47 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/25/2015 0:40 | 115161 |
| Anthracene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/25/2015 0:40 | 115161 |
| Benzo(a)anthracene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/25/2015 0:40 | 115161 |
| Benzo(a)pyrene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/25/2015 0:40 | 115161 |
| Benzo(b)fluoranthene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/25/2015 0:40 | 115161 |
| Benzo(k)fluoranthene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/25/2015 0:40 | 115161 |
| Chrysene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/25/2015 0:40 | 115161 |
| Dibenzo(a,h)anthracene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/25/2015 0:40 | 115161 |
| Fluoranthene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/25/2015 0:40 | 115161 |
| Fluorene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/25/2015 0:40 | 115161 |
| Pyrene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/25/2015 0:40 | 115161 |
| TPH-DRO (C10 - C21) | | 14.5 | | **ND** | mg/Kg-dry | 1 | 12/25/2015 0:40 | 115161 |
| TPH-ORO (C21 - C35) | | 14.5 | | **ND** | mg/Kg-dry | 1 | 12/25/2015 0:40 | 115161 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **62.4** | %REC | 1 | 12/25/2015 0:40 | 115161 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **57.0** | %REC | 1 | 12/25/2015 0:40 | 115161 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **76.8** | %REC | 1 | 12/25/2015 0:40 | 115161 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,1-Dichloro-2-propanone | | 45.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,2,3-Trichloropropane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,2-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121579-008
**Matrix:** SOLID

**Work Order:** 15121579
**Report Date:** 29-Dec-15
**Client Sample ID:** SCI-31B (16-20)
**Collection Date:** 12/22/2015 9:20

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 2-Butanone | NELAP | 45.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 2-Hexanone | NELAP | 45.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 2-Nitropropane | NELAP | 45.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| 4-Methyl-2-pentanone | NELAP | 45.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Acetone | NELAP | 45.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Acetonitrile | NELAP | 90.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Acrolein | NELAP | 90.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Acrylonitrile | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Bromomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Chloroethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Chloromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Cyclohexanone | | 90.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Dichlorodifluoromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Iodomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Methacrylonitrile | NELAP | 45.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-008
**Client Sample ID:** SCI-31B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 9:20

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Methylacrylate | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Naphthalene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| n-Heptane | | 18.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| n-Hexane | | 18.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Nitrobenzene | NELAP | 90.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Propionitrile | NELAP | 45.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| tert-Butyl alcohol | NELAP | 45.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Tetrahydrofuran | NELAP | 45.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| TPH - GRO (C6 - C10) | | 450 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Vinyl acetate | NELAP | 45.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:53 | 115190 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.6** | %REC | 1 | 12/23/2015 15:53 | 115190 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.7** | %REC | 1 | 12/23/2015 15:53 | 115190 |
| Surr: Toluene-d8 | | 86-116 | | **97.0** | %REC | 1 | 12/23/2015 15:53 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121579-009 **Client Sample ID:** SCI-32A (0-3)

**Matrix:** SOLID **Collection Date:** 12/22/2015 10:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.2** | % | 1 | 12/28/2015 18:45 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **13.4** | mg/Kg-dry | 1 | 12/24/2015 17:34 | 115198 |
| Barium | NELAP | 0.25 | | **205** | mg/Kg-dry | 1 | 12/24/2015 17:34 | 115198 |
| Cadmium | NELAP | 0.20 | | **< 0.20** | mg/Kg-dry | 1 | 12/24/2015 17:34 | 115198 |
| Chromium | NELAP | 0.50 | | **23.8** | mg/Kg-dry | 1 | 12/24/2015 17:34 | 115198 |
| Lead | NELAP | 1.50 | | **17.3** | mg/Kg-dry | 1 | 12/24/2015 17:34 | 115198 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 17:34 | 115198 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 12/24/2015 17:34 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.051** | mg/Kg-dry | 1 | 12/24/2015 9:49 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:45 | 115161 |
| Anthracene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:45 | 115161 |
| Benzo(a)anthracene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:45 | 115161 |
| Benzo(a)pyrene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:45 | 115161 |
| Benzo(b)fluoranthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:45 | 115161 |
| Benzo(k)fluoranthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:45 | 115161 |
| Chrysene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:45 | 115161 |
| Dibenzo(a,h)anthracene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:45 | 115161 |
| Fluoranthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:45 | 115161 |
| Fluorene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:45 | 115161 |
| Pyrene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:45 | 115161 |
| TPH-DRO (C10 - C21) | | 15.0 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:45 | 115161 |
| TPH-ORO (C21 - C35) | | 15.0 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 15:45 | 115161 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **63.5** | %REC | 1 | 12/24/2015 15:45 | 115161 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **58.6** | %REC | 1 | 12/24/2015 15:45 | 115161 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **77.3** | %REC | 1 | 12/24/2015 15:45 | 115161 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,1,1-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,1,2-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,1-Dichloro-2-propanone | | 43.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,1-Dichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,1-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,1-Dichloropropene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,2,3-Trichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,2,3-Trichloropropane | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,2,3-Trimethylbenzene | | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,2,4-Trichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,2,4-Trimethylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,2-Dibromoethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,2-Dichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,2-Dichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-009
**Client Sample ID:** SCI-32A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 10:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,3,5-Trimethylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,3-Dichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,3-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1,4-Dichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 1-Chlorobutane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 2,2-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 2-Butanone | NELAP | 43.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 2-Chlorotoluene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 2-Hexanone | NELAP | 43.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 2-Nitropropane | NELAP | 43.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 4-Chlorotoluene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| 4-Methyl-2-pentanone | NELAP | 43.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Acetone | NELAP | 43.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Acetonitrile | NELAP | 86.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Acrolein | NELAP | 86.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Acrylonitrile | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Allyl chloride | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Bromobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Bromochloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Bromodichloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Bromoform | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Bromomethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Carbon disulfide | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Carbon tetrachloride | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Chlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Chloroethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Chloroform | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Chloromethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| cis-1,2-Dichloroethene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Cyclohexanone | | 86.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Dibromochloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Dibromomethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Dichlorodifluoromethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Diisopropyl ether | | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Ethyl ether | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Ethyl methacrylate | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Ethylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Ethyl-tert-butyl ether | | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Hexachlorobutadiene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Hexachloroethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Iodomethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Isopropylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| m,p-Xylenes | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Methacrylonitrile | NELAP | 43.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-009
**Client Sample ID:** SCI-32A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 10:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Methylacrylate | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Methylene chloride | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Naphthalene | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| n-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| n-Heptane | | 17.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| n-Hexane | | 17.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Nitrobenzene | NELAP | 86.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| n-Propylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| o-Xylene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Pentachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| p-Isopropyltoluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Propionitrile | NELAP | 43.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| sec-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Styrene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| tert-Amyl methyl ether | | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| tert-Butyl alcohol | NELAP | 43.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| tert-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Tetrachloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Tetrahydrofuran | NELAP | 43.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Toluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| TPH - GRO (C6 - C10) | | 430 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| trans-1,2-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Trichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Trichlorofluoromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Vinyl acetate | NELAP | 43.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Xylenes, Total | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:19 | 115190 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.9** | %REC | 1 | 12/23/2015 16:19 | 115190 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.4** | %REC | 1 | 12/23/2015 16:19 | 115190 |
| Surr: Toluene-d8 | | 86-116 | | **97.5** | %REC | 1 | 12/23/2015 16:19 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-010
**Client Sample ID:** SCI-32B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 10:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.6** | % | 1 | 12/28/2015 18:45 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **4.70** | mg/Kg-dry | 1 | 12/24/2015 17:40 | 115198 |
| Barium | NELAP | 0.25 | | **97.6** | mg/Kg-dry | 1 | 12/24/2015 17:40 | 115198 |
| Cadmium | NELAP | 0.20 | J | **0.10** | mg/Kg-dry | 1 | 12/24/2015 17:40 | 115198 |
| Chromium | NELAP | 0.50 | | **19.6** | mg/Kg-dry | 1 | 12/24/2015 17:40 | 115198 |
| Lead | NELAP | 1.50 | | **8.28** | mg/Kg-dry | 1 | 12/24/2015 17:40 | 115198 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 17:40 | 115198 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 12/24/2015 17:40 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.030** | mg/Kg-dry | 1 | 12/24/2015 9:51 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:14 | 115161 |
| Anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:14 | 115161 |
| Benzo(a)anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:14 | 115161 |
| Benzo(a)pyrene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:14 | 115161 |
| Benzo(b)fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:14 | 115161 |
| Benzo(k)fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:14 | 115161 |
| Chrysene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:14 | 115161 |
| Dibenzo(a,h)anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:14 | 115161 |
| Fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:14 | 115161 |
| Fluorene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:14 | 115161 |
| Pyrene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:14 | 115161 |
| TPH-DRO (C10 - C21) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:14 | 115161 |
| TPH-ORO (C21 - C35) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:14 | 115161 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **62.5** | %REC | 1 | 12/24/2015 16:14 | 115161 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **58.7** | %REC | 1 | 12/24/2015 16:14 | 115161 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **73.0** | %REC | 1 | 12/24/2015 16:14 | 115161 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,1-Dichloro-2-propanone | | 44.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,2,3-Trichloropropane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,2-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121579-010
**Matrix:** SOLID

**Work Order:** 15121579
**Report Date:** 29-Dec-15
**Client Sample ID:** SCI-32B (16-20)
**Collection Date:** 12/22/2015 10:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 2-Butanone | NELAP | 44.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 2-Hexanone | NELAP | 44.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 2-Nitropropane | NELAP | 44.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| 4-Methyl-2-pentanone | NELAP | 44.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Acetone | NELAP | 44.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Acetonitrile | NELAP | 89.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Acrolein | NELAP | 89.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Acrylonitrile | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Bromomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Chloroethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Chloromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Cyclohexanone | | 89.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Dichlorodifluoromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Iodomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Methacrylonitrile | NELAP | 44.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-010
**Client Sample ID:** SCI-32B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 10:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Methylacrylate | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Naphthalene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| n-Heptane | | 17.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| n-Hexane | | 17.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Nitrobenzene | NELAP | 89.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Propionitrile | NELAP | 44.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| tert-Butyl alcohol | NELAP | 44.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Tetrahydrofuran | NELAP | 44.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| TPH - GRO (C6 - C10) | | 447 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Vinyl acetate | NELAP | 44.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:45 | 115190 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **107.3** | %REC | 1 | 12/23/2015 16:45 | 115190 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.0** | %REC | 1 | 12/23/2015 16:45 | 115190 |
| Surr: Toluene-d8 | | 86-116 | | **96.1** | %REC | 1 | 12/23/2015 16:45 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121579-011 **Client Sample ID:** SCI-33A (0-3)

**Matrix:** SOLID **Collection Date:** 12/22/2015 10:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **25.6** | % | 1 | 12/28/2015 18:46 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **7.44** | mg/Kg-dry | 1 | 12/24/2015 17:46 | 115198 |
| Barium | NELAP | 0.25 | | **178** | mg/Kg-dry | 1 | 12/24/2015 17:46 | 115198 |
| Cadmium | NELAP | 0.20 | | **1.08** | mg/Kg-dry | 1 | 12/24/2015 17:46 | 115198 |
| Chromium | NELAP | 0.50 | | **13.7** | mg/Kg-dry | 1 | 12/24/2015 17:46 | 115198 |
| Lead | NELAP | 1.50 | | **324** | mg/Kg-dry | 1 | 12/24/2015 17:46 | 115198 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 17:46 | 115198 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 12/24/2015 17:46 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.084** | mg/Kg-dry | 1 | 12/24/2015 9:53 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.454 | | **ND** | mg/Kg-dry | 1 | 12/28/2015 11:48 | 115161 |
| Anthracene | NELAP | 0.454 | | **ND** | mg/Kg-dry | 1 | 12/28/2015 11:48 | 115161 |
| Benzo(a)anthracene | NELAP | 0.454 | | **0.489** | mg/Kg-dry | 1 | 12/28/2015 11:48 | 115161 |
| Benzo(a)pyrene | NELAP | 0.454 | | **0.454** | mg/Kg-dry | 1 | 12/28/2015 11:48 | 115161 |
| Benzo(b)fluoranthene | NELAP | 0.454 | | **0.814** | mg/Kg-dry | 1 | 12/28/2015 11:48 | 115161 |
| Benzo(k)fluoranthene | NELAP | 0.454 | J | **0.25** | mg/Kg-dry | 1 | 12/28/2015 11:48 | 115161 |
| Chrysene | NELAP | 0.454 | J | **0.40** | mg/Kg-dry | 1 | 12/28/2015 11:48 | 115161 |
| Dibenzo(a,h)anthracene | NELAP | 0.454 | | **ND** | mg/Kg-dry | 1 | 12/28/2015 11:48 | 115161 |
| Fluoranthene | NELAP | 0.454 | | **0.827** | mg/Kg-dry | 1 | 12/28/2015 11:48 | 115161 |
| Fluorene | NELAP | 0.454 | | **ND** | mg/Kg-dry | 1 | 12/28/2015 11:48 | 115161 |
| Pyrene | NELAP | 0.454 | | **0.769** | mg/Kg-dry | 1 | 12/28/2015 11:48 | 115161 |
| TPH-DRO (C10 - C21) | | 160 | | **199** | mg/Kg-dry | 1 | 12/28/2015 11:48 | 115161 |
| TPH-ORO (C21 - C35) | | 160 | | **1030** | mg/Kg-dry | 1 | 12/28/2015 11:48 | 115161 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **74.5** | %REC | 1 | 12/28/2015 11:48 | 115161 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **63.7** | %REC | 1 | 12/28/2015 11:48 | 115161 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.6** | %REC | 1 | 12/28/2015 11:48 | 115161 |

*Elevated reporting limit due to sample composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,1,1-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,1,2-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,1-Dichloro-2-propanone | | 48.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,1-Dichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,1-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,1-Dichloropropene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,2,3-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,2,3-Trichloropropane | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,2,3-Trimethylbenzene | | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,2,4-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,2,4-Trimethylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,2-Dibromoethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,2-Dichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-011
**Client Sample ID:** SCI-33A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 10:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,3,5-Trimethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,3-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,3-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1,4-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 1-Chlorobutane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 2,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 2-Butanone | NELAP | 48.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 2-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 2-Hexanone | NELAP | 48.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 2-Nitropropane | NELAP | 48.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 4-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| 4-Methyl-2-pentanone | NELAP | 48.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Acetone | NELAP | 48.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Acetonitrile | NELAP | 97.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Acrolein | NELAP | 97.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Acrylonitrile | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Allyl chloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Bromobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Bromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Bromodichloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Bromoform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Bromomethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Carbon disulfide | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Carbon tetrachloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Chlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Chloroethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Chloroform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Chloromethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| cis-1,2-Dichloroethene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| cis-1,3-Dichloropropene | NELAP | 3.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Cyclohexanone | | 97.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Dibromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Dibromomethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Dichlorodifluoromethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Diisopropyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Ethyl ether | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Ethyl methacrylate | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Ethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Ethyl-tert-butyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Hexachlorobutadiene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Hexachloroethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Iodomethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Isopropylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| m,p-Xylenes | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121579-011 **Client Sample ID:** SCI-33A (0-3)

**Matrix:** SOLID **Collection Date:** 12/22/2015 10:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 48.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Methyl Methacrylate | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Methylacrylate | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Methylene chloride | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Naphthalene | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| n-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| n-Heptane | | 19.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| n-Hexane | | 19.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Nitrobenzene | NELAP | 97.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| n-Propylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| o-Xylene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Pentachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| p-Isopropyltoluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Propionitrile | NELAP | 48.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| sec-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Styrene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| tert-Amyl methyl ether | | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| tert-Butyl alcohol | NELAP | 48.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| tert-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Tetrachloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Tetrahydrofuran | NELAP | 48.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Toluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| TPH - GRO (C6 - C10) | | 487 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| trans-1,2-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| trans-1,3-Dichloropropene | NELAP | 3.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Trichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Trichlorofluoromethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Vinyl acetate | NELAP | 48.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Xylenes, Total | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:12 | 115190 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **105.3** | %REC | 1 | 12/23/2015 17:12 | 115190 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **106.2** | %REC | 1 | 12/23/2015 17:12 | 115190 |
| Surr: Toluene-d8 | | 86-116 | | **97.3** | %REC | 1 | 12/23/2015 17:12 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121579-012
**Matrix:** SOLID

**Work Order:** 15121579
**Report Date:** 29-Dec-15
**Client Sample ID:** SCI-33B (16-20)
**Collection Date:** 12/22/2015 10:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.5** | % | 1 | 12/28/2015 18:46 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **4.92** | mg/Kg-dry | 1 | 12/24/2015 17:52 | 115198 |
| Barium | NELAP | 0.24 | | **113** | mg/Kg-dry | 1 | 12/24/2015 17:52 | 115198 |
| Cadmium | NELAP | 0.19 | J | **0.09** | mg/Kg-dry | 1 | 12/24/2015 17:52 | 115198 |
| Chromium | NELAP | 0.47 | | **19.1** | mg/Kg-dry | 1 | 12/24/2015 17:52 | 115198 |
| Lead | NELAP | 1.42 | | **8.81** | mg/Kg-dry | 1 | 12/24/2015 17:52 | 115198 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/24/2015 17:52 | 115198 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 12/24/2015 17:52 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.027** | mg/Kg-dry | 1 | 12/24/2015 10:00 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:44 | 115161 |
| Anthracene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:44 | 115161 |
| Benzo(a)anthracene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:44 | 115161 |
| Benzo(a)pyrene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:44 | 115161 |
| Benzo(b)fluoranthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:44 | 115161 |
| Benzo(k)fluoranthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:44 | 115161 |
| Chrysene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:44 | 115161 |
| Dibenzo(a,h)anthracene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:44 | 115161 |
| Fluoranthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:44 | 115161 |
| Fluorene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:44 | 115161 |
| Pyrene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:44 | 115161 |
| TPH-DRO (C10 - C21) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:44 | 115161 |
| TPH-ORO (C21 - C35) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 16:44 | 115161 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **61.2** | %REC | 1 | 12/24/2015 16:44 | 115161 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **55.9** | %REC | 1 | 12/24/2015 16:44 | 115161 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **76.5** | %REC | 1 | 12/24/2015 16:44 | 115161 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,1-Dichloro-2-propanone | | 43.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,2,3-Trichloropropane | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-012
**Client Sample ID:** SCI-33B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 10:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 2-Butanone | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 2-Hexanone | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 2-Nitropropane | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| 4-Methyl-2-pentanone | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Acetone | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Acetonitrile | NELAP | 87.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Acrolein | NELAP | 87.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Acrylonitrile | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Bromomethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Chloroethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Chloromethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Cyclohexanone | | 87.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Dichlorodifluoromethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Iodomethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Methacrylonitrile | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-012
**Client Sample ID:** SCI-33B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 10:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Methylacrylate | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Naphthalene | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| n-Heptane | | 17.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| n-Hexane | | 17.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Nitrobenzene | NELAP | 87.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Propionitrile | NELAP | 43.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| tert-Butyl alcohol | NELAP | 43.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Tetrahydrofuran | NELAP | 43.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| TPH - GRO (C6 - C10) | | 436 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Vinyl acetate | NELAP | 43.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:38 | 115190 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.0** | %REC | 1 | 12/23/2015 17:38 | 115190 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.6** | %REC | 1 | 12/23/2015 17:38 | 115190 |
| Surr: Toluene-d8 | | 86-116 | | **96.1** | %REC | 1 | 12/23/2015 17:38 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121579-013 **Client Sample ID:** SCI-34A (0-3)

**Matrix:** SOLID **Collection Date:** 12/22/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.4** | % | 1 | 12/28/2015 18:46 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **11.3** | mg/Kg-dry | 1 | 12/24/2015 17:58 | 115198 |
| Barium | NELAP | 0.25 | | **158** | mg/Kg-dry | 1 | 12/24/2015 17:58 | 115198 |
| Cadmium | NELAP | 0.20 | | **2.55** | mg/Kg-dry | 1 | 12/24/2015 17:58 | 115198 |
| Chromium | NELAP | 0.50 | | **15.6** | mg/Kg-dry | 1 | 12/24/2015 17:58 | 115198 |
| Lead | NELAP | 1.50 | | **667** | mg/Kg-dry | 1 | 12/24/2015 17:58 | 115198 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 17:58 | 115198 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 12/24/2015 17:58 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.222** | mg/Kg-dry | 1 | 12/24/2015 10:07 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 4.14 | | **5.81** | mg/Kg-dry | 10 | 12/28/2015 12:48 | 115161 |
| Anthracene | NELAP | 4.14 | | **13.9** | mg/Kg-dry | 10 | 12/28/2015 12:48 | 115161 |
| Benzo(a)anthracene | NELAP | 4.14 | | **54.5** | mg/Kg-dry | 10 | 12/28/2015 12:48 | 115161 |
| Benzo(a)pyrene | NELAP | 4.14 | | **54.6** | mg/Kg-dry | 10 | 12/28/2015 12:48 | 115161 |
| Benzo(b)fluoranthene | NELAP | 4.14 | | **75.1** | mg/Kg-dry | 10 | 12/28/2015 12:48 | 115161 |
| Benzo(k)fluoranthene | NELAP | 4.14 | | **32.8** | mg/Kg-dry | 10 | 12/28/2015 12:48 | 115161 |
| Chrysene | NELAP | 4.14 | | **53.6** | mg/Kg-dry | 10 | 12/28/2015 12:48 | 115161 |
| Dibenzo(a,h)anthracene | NELAP | 4.14 | | **5.24** | mg/Kg-dry | 10 | 12/28/2015 12:48 | 115161 |
| Fluoranthene | NELAP | 4.14 | | **117** | mg/Kg-dry | 10 | 12/28/2015 12:48 | 115161 |
| Fluorene | NELAP | 4.14 | J | **3.7** | mg/Kg-dry | 10 | 12/28/2015 12:48 | 115161 |
| Pyrene | NELAP | 4.14 | | **109** | mg/Kg-dry | 10 | 12/28/2015 12:48 | 115161 |
| TPH-DRO (C10 - C21) | | 1460 | J | **850** | mg/Kg-dry | 10 | 12/28/2015 12:48 | 115161 |
| TPH-ORO (C21 - C35) | | 1460 | | **1740** | mg/Kg-dry | 10 | 12/28/2015 12:48 | 115161 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **103.8** | %REC | 10 | 12/28/2015 12:48 | 115161 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **77.8** | %REC | 10 | 12/28/2015 12:48 | 115161 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **127.7** | %REC | 10 | 12/28/2015 12:48 | 115161 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,1,1-Trichloroethane | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,1,2,2-Tetrachloroethane | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,1,2-Trichloroethane | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,1-Dichloro-2-propanone | | 62.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,1-Dichloroethane | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,1-Dichloroethene | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,1-Dichloropropene | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,2,3-Trichlorobenzene | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,2,3-Trichloropropane | NELAP | 12.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,2,3-Trimethylbenzene | | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,2,4-Trichlorobenzene | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,2,4-Trimethylbenzene | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,2-Dibromo-3-chloropropane | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,2-Dibromoethane | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,2-Dichlorobenzene | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-013
**Client Sample ID:** SCI-34A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,2-Dichloropropane | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,3,5-Trimethylbenzene | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,3-Dichlorobenzene | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,3-Dichloropropane | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1,4-Dichlorobenzene | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 1-Chlorobutane | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 2,2-Dichloropropane | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 2-Butanone | NELAP | 62.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 2-Chlorotoluene | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 2-Hexanone | NELAP | 62.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 2-Nitropropane | NELAP | 62.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 4-Chlorotoluene | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| 4-Methyl-2-pentanone | NELAP | 62.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Acetone | NELAP | 62.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Acetonitrile | NELAP | 124 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Acrolein | NELAP | 124 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Acrylonitrile | NELAP | 12.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Allyl chloride | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Benzene | NELAP | 1.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Bromobenzene | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Bromochloromethane | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Bromodichloromethane | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Bromoform | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Bromomethane | NELAP | 12.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Carbon disulfide | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Carbon tetrachloride | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Chlorobenzene | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Chloroethane | NELAP | 12.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Chloroform | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Chloromethane | NELAP | 12.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| cis-1,2-Dichloroethene | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Cyclohexanone | | 124 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Dibromochloromethane | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Dibromomethane | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Dichlorodifluoromethane | NELAP | 12.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Diisopropyl ether | | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Ethyl ether | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Ethyl methacrylate | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Ethylbenzene | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Ethyl-tert-butyl ether | | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Hexachlorobutadiene | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Hexachloroethane | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Iodomethane | NELAP | 12.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Isopropylbenzene | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| m,p-Xylenes | NELAP | 6.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-013
**Client Sample ID:** SCI-34A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 62.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Methyl Methacrylate | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Methyl tert-butyl ether | NELAP | 2.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Methylacrylate | NELAP | 12.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Methylene chloride | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Naphthalene | NELAP | 12.4 | J | **3.4** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| n-Butylbenzene | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| n-Heptane | | 24.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| n-Hexane | | 24.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Nitrobenzene | NELAP | 124 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| n-Propylbenzene | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| o-Xylene | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Pentachloroethane | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| p-Isopropyltoluene | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Propionitrile | NELAP | 62.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| sec-Butylbenzene | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Styrene | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| tert-Amyl methyl ether | | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| tert-Butyl alcohol | NELAP | 62.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| tert-Butylbenzene | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Tetrachloroethene | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Tetrahydrofuran | NELAP | 62.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Toluene | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| TPH - GRO (C6 - C10) | | 620 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| trans-1,2-Dichloroethene | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| trans-1,4-Dichloro-2-butene | NELAP | 12.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Trichloroethene | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Trichlorofluoromethane | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Vinyl acetate | NELAP | 62.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Vinyl chloride | NELAP | 2.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Xylenes, Total | NELAP | 6.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:31 | 115189 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.8** | %REC | 1 | 12/23/2015 12:31 | 115189 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **108.7** | %REC | 1 | 12/23/2015 12:31 | 115189 |
| Surr: Toluene-d8 | | 86-116 | | **106.8** | %REC | 1 | 12/23/2015 12:31 | 115189 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-014
**Client Sample ID:** SCI-34B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.5** | % | 1 | 12/28/2015 18:47 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **5.55** | mg/Kg-dry | 1 | 12/24/2015 18:04 | 115198 |
| Barium | NELAP | 0.24 | | **109** | mg/Kg-dry | 1 | 12/24/2015 18:04 | 115198 |
| Cadmium | NELAP | 0.19 | J | **0.09** | mg/Kg-dry | 1 | 12/24/2015 18:04 | 115198 |
| Chromium | NELAP | 0.47 | | **19.2** | mg/Kg-dry | 1 | 12/24/2015 18:04 | 115198 |
| Lead | NELAP | 1.42 | | **8.60** | mg/Kg-dry | 1 | 12/24/2015 18:04 | 115198 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/24/2015 18:04 | 115198 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 12/24/2015 18:04 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.025** | mg/Kg-dry | 1 | 12/24/2015 10:09 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:14 | 115161 |
| Anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:14 | 115161 |
| Benzo(a)anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:14 | 115161 |
| Benzo(a)pyrene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:14 | 115161 |
| Benzo(b)fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:14 | 115161 |
| Benzo(k)fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:14 | 115161 |
| Chrysene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:14 | 115161 |
| Dibenzo(a,h)anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:14 | 115161 |
| Fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:14 | 115161 |
| Fluorene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:14 | 115161 |
| Pyrene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:14 | 115161 |
| TPH-DRO (C10 - C21) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:14 | 115161 |
| TPH-ORO (C21 - C35) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:14 | 115161 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **63.3** | %REC | 1 | 12/24/2015 17:14 | 115161 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **58.8** | %REC | 1 | 12/24/2015 17:14 | 115161 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **77.6** | %REC | 1 | 12/24/2015 17:14 | 115161 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,1,1-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,1,2-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,1-Dichloro-2-propanone | | 43.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,1-Dichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,1-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,1-Dichloropropene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,2,3-Trichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,2,3-Trichloropropane | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,2,3-Trimethylbenzene | | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,2,4-Trichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,2,4-Trimethylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,2-Dibromoethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,2-Dichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,2-Dichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121579-014 **Client Sample ID:** SCI-34B (16-20)

**Matrix:** SOLID **Collection Date:** 12/22/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,3,5-Trimethylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,3-Dichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,3-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1,4-Dichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 1-Chlorobutane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 2,2-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 2-Butanone | NELAP | 43.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 2-Chlorotoluene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 2-Hexanone | NELAP | 43.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 2-Nitropropane | NELAP | 43.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 4-Chlorotoluene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| 4-Methyl-2-pentanone | NELAP | 43.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Acetone | NELAP | 43.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Acetonitrile | NELAP | 86.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Acrolein | NELAP | 86.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Acrylonitrile | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Allyl chloride | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Bromobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Bromochloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Bromodichloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Bromoform | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Bromomethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Carbon disulfide | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Carbon tetrachloride | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Chlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Chloroethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Chloroform | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Chloromethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| cis-1,2-Dichloroethene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Cyclohexanone | | 86.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Dibromochloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Dibromomethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Dichlorodifluoromethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Diisopropyl ether | | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Ethyl ether | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Ethyl methacrylate | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Ethylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Ethyl-tert-butyl ether | | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Hexachlorobutadiene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Hexachloroethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Iodomethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Isopropylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| m,p-Xylenes | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Methacrylonitrile | NELAP | 43.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-014
**Client Sample ID:** SCI-34B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Methylacrylate | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Methylene chloride | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Naphthalene | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| n-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| n-Heptane | | 17.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| n-Hexane | | 17.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Nitrobenzene | NELAP | 86.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| n-Propylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| o-Xylene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Pentachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| p-Isopropyltoluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Propionitrile | NELAP | 43.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| sec-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Styrene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| tert-Amyl methyl ether | | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| tert-Butyl alcohol | NELAP | 43.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| tert-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Tetrachloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Tetrahydrofuran | NELAP | 43.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Toluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| TPH - GRO (C6 - C10) | | 431 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| trans-1,2-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Trichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Trichlorofluoromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Vinyl acetate | NELAP | 43.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Xylenes, Total | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:57 | 115189 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **106.3** | %REC | 1 | 12/23/2015 12:57 | 115189 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.1** | %REC | 1 | 12/23/2015 12:57 | 115189 |
| Surr: Toluene-d8 | | 86-116 | | **104.4** | %REC | 1 | 12/23/2015 12:57 | 115189 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-015
**Client Sample ID:** SCI-34D (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.5** | % | 1 | 12/28/2015 18:47 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **5.83** | mg/Kg-dry | 1 | 12/24/2015 18:10 | 115198 |
| Barium | NELAP | 0.24 | | **99.3** | mg/Kg-dry | 1 | 12/24/2015 18:10 | 115198 |
| Cadmium | NELAP | 0.19 | J | **0.16** | mg/Kg-dry | 1 | 12/24/2015 18:10 | 115198 |
| Chromium | NELAP | 0.48 | | **19.7** | mg/Kg-dry | 1 | 12/24/2015 18:10 | 115198 |
| Lead | NELAP | 1.44 | | **9.06** | mg/Kg-dry | 1 | 12/24/2015 18:10 | 115198 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/24/2015 18:10 | 115198 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/24/2015 18:10 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.033** | mg/Kg-dry | 1 | 12/24/2015 10:11 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:44 | 115161 |
| Anthracene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:44 | 115161 |
| Benzo(a)anthracene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:44 | 115161 |
| Benzo(a)pyrene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:44 | 115161 |
| Benzo(b)fluoranthene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:44 | 115161 |
| Benzo(k)fluoranthene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:44 | 115161 |
| Chrysene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:44 | 115161 |
| Dibenzo(a,h)anthracene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:44 | 115161 |
| Fluoranthene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:44 | 115161 |
| Fluorene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:44 | 115161 |
| Pyrene | NELAP | 0.0419 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:44 | 115161 |
| TPH-DRO (C10 - C21) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:44 | 115161 |
| TPH-ORO (C21 - C35) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 17:44 | 115161 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **64.0** | %REC | 1 | 12/24/2015 17:44 | 115161 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **59.6** | %REC | 1 | 12/24/2015 17:44 | 115161 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **78.0** | %REC | 1 | 12/24/2015 17:44 | 115161 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,1,1-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,1,2-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,1-Dichloro-2-propanone | | 43.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,1-Dichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,1-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,1-Dichloropropene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,2,3-Trichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,2,3-Trichloropropane | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,2,3-Trimethylbenzene | | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,2,4-Trichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,2,4-Trimethylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,2-Dibromoethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,2-Dichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,2-Dichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121579-015
**Matrix:** SOLID

**Work Order:** 15121579
**Report Date:** 29-Dec-15
**Client Sample ID:** SCI-34D (16-20)
**Collection Date:** 12/22/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,3,5-Trimethylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,3-Dichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,3-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1,4-Dichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 1-Chlorobutane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 2,2-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 2-Butanone | NELAP | 43.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 2-Chlorotoluene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 2-Hexanone | NELAP | 43.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 2-Nitropropane | NELAP | 43.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 4-Chlorotoluene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| 4-Methyl-2-pentanone | NELAP | 43.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Acetone | NELAP | 43.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Acetonitrile | NELAP | 86.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Acrolein | NELAP | 86.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Acrylonitrile | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Allyl chloride | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Bromobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Bromochloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Bromodichloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Bromoform | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Bromomethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Carbon disulfide | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Carbon tetrachloride | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Chlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Chloroethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Chloroform | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Chloromethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| cis-1,2-Dichloroethene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Cyclohexanone | | 86.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Dibromochloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Dibromomethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Dichlorodifluoromethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Diisopropyl ether | | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Ethyl ether | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Ethyl methacrylate | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Ethylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Ethyl-tert-butyl ether | | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Hexachlorobutadiene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Hexachloroethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Iodomethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Isopropylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| m,p-Xylenes | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Methacrylonitrile | NELAP | 43.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-015
**Client Sample ID:** SCI-34D (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Methylacrylate | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Methylene chloride | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Naphthalene | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| n-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| n-Heptane | | 17.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| n-Hexane | | 17.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Nitrobenzene | NELAP | 86.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| n-Propylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| o-Xylene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Pentachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| p-Isopropyltoluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Propionitrile | NELAP | 43.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| sec-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Styrene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| tert-Amyl methyl ether | | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| tert-Butyl alcohol | NELAP | 43.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| tert-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Tetrachloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Tetrahydrofuran | NELAP | 43.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Toluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| TPH - GRO (C6 - C10) | | 431 | J | **320** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| trans-1,2-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Trichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Trichlorofluoromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Vinyl acetate | NELAP | 43.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Xylenes, Total | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:24 | 115189 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **93.3** | %REC | 1 | 12/23/2015 13:24 | 115189 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **103.2** | %REC | 1 | 12/23/2015 13:24 | 115189 |
| Surr: Toluene-d8 | | 86-116 | | **107.8** | %REC | 1 | 12/23/2015 13:24 | 115189 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-016
**Client Sample ID:** SCI-35A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 12:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.3** | % | 1 | 12/28/2015 18:48 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **7.39** | mg/Kg-dry | 1 | 12/24/2015 18:29 | 115198 |
| Barium | NELAP | 0.24 | | **156** | mg/Kg-dry | 1 | 12/24/2015 18:29 | 115198 |
| Cadmium | NELAP | 0.19 | | **0.19** | mg/Kg-dry | 1 | 12/24/2015 18:29 | 115198 |
| Chromium | NELAP | 0.48 | | **18.6** | mg/Kg-dry | 1 | 12/24/2015 18:29 | 115198 |
| Lead | NELAP | 1.44 | | **19.7** | mg/Kg-dry | 1 | 12/24/2015 18:29 | 115198 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/24/2015 18:29 | 115198 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/24/2015 18:29 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.136** | mg/Kg-dry | 1 | 12/24/2015 10:14 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:10 | 115161 |
| Anthracene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:10 | 115161 |
| Benzo(a)anthracene | NELAP | 0.0422 | J | **0.031** | mg/Kg-dry | 1 | 12/24/2015 23:10 | 115161 |
| Benzo(a)pyrene | NELAP | 0.0422 | J | **0.026** | mg/Kg-dry | 1 | 12/24/2015 23:10 | 115161 |
| Benzo(b)fluoranthene | NELAP | 0.0422 | J | **0.034** | mg/Kg-dry | 1 | 12/24/2015 23:10 | 115161 |
| Benzo(k)fluoranthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:10 | 115161 |
| Chrysene | NELAP | 0.0422 | J | **0.026** | mg/Kg-dry | 1 | 12/24/2015 23:10 | 115161 |
| Dibenzo(a,h)anthracene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:10 | 115161 |
| Fluoranthene | NELAP | 0.0422 | | **0.0641** | mg/Kg-dry | 1 | 12/24/2015 23:10 | 115161 |
| Fluorene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:10 | 115161 |
| Pyrene | NELAP | 0.0422 | | **0.0533** | mg/Kg-dry | 1 | 12/24/2015 23:10 | 115161 |
| TPH-DRO (C10 - C21) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:10 | 115161 |
| TPH-ORO (C21 - C35) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:10 | 115161 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **66.8** | %REC | 1 | 12/24/2015 23:10 | 115161 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **59.7** | %REC | 1 | 12/24/2015 23:10 | 115161 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **75.6** | %REC | 1 | 12/24/2015 23:10 | 115161 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,1-Dichloro-2-propanone | | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,2,3-Trichloropropane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-016
**Client Sample ID:** SCI-35A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 12:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 2-Butanone | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 2-Hexanone | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 2-Nitropropane | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| 4-Methyl-2-pentanone | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Acetone | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Acetonitrile | NELAP | 88.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Acrolein | NELAP | 88.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Acrylonitrile | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Bromomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Chloroethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Chloromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Cyclohexanone | | 88.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Dichlorodifluoromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Iodomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Methacrylonitrile | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-016
**Client Sample ID:** SCI-35A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 12:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Methylacrylate | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Naphthalene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| n-Heptane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| n-Hexane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Nitrobenzene | NELAP | 88.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Propionitrile | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| tert-Butyl alcohol | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Tetrahydrofuran | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| TPH - GRO (C6 - C10) | | 444 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Vinyl acetate | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:51 | 115189 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **99.0** | %REC | 1 | 12/23/2015 13:51 | 115189 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **104.8** | %REC | 1 | 12/23/2015 13:51 | 115189 |
| Surr: Toluene-d8 | | 86-116 | | **106.3** | %REC | 1 | 12/23/2015 13:51 | 115189 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-017
**Client Sample ID:** SCI-35B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 12:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.2** | % | 1 | 12/28/2015 18:48 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **8.45** | mg/Kg-dry | 1 | 12/24/2015 18:35 | 115198 |
| Barium | NELAP | 0.24 | | **83.0** | mg/Kg-dry | 1 | 12/24/2015 18:35 | 115198 |
| Cadmium | NELAP | 0.19 | J | **0.08** | mg/Kg-dry | 1 | 12/24/2015 18:35 | 115198 |
| Chromium | NELAP | 0.47 | | **33.6** | mg/Kg-dry | 1 | 12/24/2015 18:35 | 115198 |
| Lead | NELAP | 1.42 | | **16.1** | mg/Kg-dry | 1 | 12/24/2015 18:35 | 115198 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/24/2015 18:35 | 115198 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 12/28/2015 11:53 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.028** | mg/Kg-dry | 1 | 12/24/2015 10:16 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0408 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:40 | 115161 |
| Anthracene | NELAP | 0.0408 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:40 | 115161 |
| Benzo(a)anthracene | NELAP | 0.0408 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:40 | 115161 |
| Benzo(a)pyrene | NELAP | 0.0408 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:40 | 115161 |
| Benzo(b)fluoranthene | NELAP | 0.0408 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:40 | 115161 |
| Benzo(k)fluoranthene | NELAP | 0.0408 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:40 | 115161 |
| Chrysene | NELAP | 0.0408 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:40 | 115161 |
| Dibenzo(a,h)anthracene | NELAP | 0.0408 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:40 | 115161 |
| Fluoranthene | NELAP | 0.0408 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:40 | 115161 |
| Fluorene | NELAP | 0.0408 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:40 | 115161 |
| Pyrene | NELAP | 0.0408 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:40 | 115161 |
| TPH-DRO (C10 - C21) | | 14.4 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:40 | 115161 |
| TPH-ORO (C21 - C35) | | 14.4 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 23:40 | 115161 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **61.9** | %REC | 1 | 12/24/2015 23:40 | 115161 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **59.0** | %REC | 1 | 12/24/2015 23:40 | 115161 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **76.0** | %REC | 1 | 12/24/2015 23:40 | 115161 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,1,1-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,1,2-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,1-Dichloro-2-propanone | | 41.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,1-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,1-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,1-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,2,3-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,2,3-Trichloropropane | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,2,3-Trimethylbenzene | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,2,4-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,2,4-Trimethylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,2-Dibromoethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,2-Dichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,2-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121579-017 **Client Sample ID:** SCI-35B (16-20)

**Matrix:** SOLID **Collection Date:** 12/22/2015 12:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,3,5-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,3-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,3-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1,4-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 1-Chlorobutane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 2,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 2-Butanone | NELAP | 41.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 2-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 2-Hexanone | NELAP | 41.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 2-Nitropropane | NELAP | 41.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 4-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| 4-Methyl-2-pentanone | NELAP | 41.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Acetone | NELAP | 41.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Acetonitrile | NELAP | 83.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Acrolein | NELAP | 83.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Acrylonitrile | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Allyl chloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Bromobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Bromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Bromodichloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Bromoform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Bromomethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Carbon disulfide | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Carbon tetrachloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Chlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Chloroethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Chloroform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Chloromethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| cis-1,2-Dichloroethene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| cis-1,3-Dichloropropene | NELAP | 3.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Cyclohexanone | | 83.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Dibromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Dibromomethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Dichlorodifluoromethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Diisopropyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Ethyl ether | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Ethyl methacrylate | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Ethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Ethyl-tert-butyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Hexachlorobutadiene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Hexachloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Iodomethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Isopropylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| m,p-Xylenes | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Methacrylonitrile | NELAP | 41.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121579-017 **Client Sample ID:** SCI-35B (16-20)

**Matrix:** SOLID **Collection Date:** 12/22/2015 12:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Methylacrylate | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Methylene chloride | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Naphthalene | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| n-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| n-Heptane | | 16.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| n-Hexane | | 16.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Nitrobenzene | NELAP | 83.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| n-Propylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| o-Xylene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Pentachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| p-Isopropyltoluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Propionitrile | NELAP | 41.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| sec-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Styrene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| tert-Amyl methyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| tert-Butyl alcohol | NELAP | 41.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| tert-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Tetrachloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Tetrahydrofuran | NELAP | 41.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Toluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| TPH - GRO (C6 - C10) | | 418 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| trans-1,2-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| trans-1,3-Dichloropropene | NELAP | 3.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Trichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Trichlorofluoromethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Vinyl acetate | NELAP | 41.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Xylenes, Total | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:17 | 115189 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **110.1** | %REC | 1 | 12/23/2015 14:17 | 115189 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **103.2** | %REC | 1 | 12/23/2015 14:17 | 115189 |
| Surr: Toluene-d8 | | 86-116 | | **103.3** | %REC | 1 | 12/23/2015 14:17 | 115189 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121579-018 **Client Sample ID:** SCI-36A (0-3)

**Matrix:** SOLID **Collection Date:** 12/22/2015 12:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.5** | % | 1 | 12/28/2015 18:48 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **9.00** | mg/Kg-dry | 1 | 12/24/2015 18:53 | 115198 |
| Barium | NELAP | 0.25 | | **215** | mg/Kg-dry | 1 | 12/24/2015 18:53 | 115198 |
| Cadmium | NELAP | 0.20 | | **0.32** | mg/Kg-dry | 1 | 12/24/2015 18:53 | 115198 |
| Chromium | NELAP | 0.50 | | **25.8** | mg/Kg-dry | 1 | 12/24/2015 18:53 | 115198 |
| Lead | NELAP | 1.50 | | **49.6** | mg/Kg-dry | 1 | 12/24/2015 18:53 | 115198 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 18:53 | 115198 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 12/24/2015 18:53 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.110** | mg/Kg-dry | 1 | 12/24/2015 10:18 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.413 | J | **0.38** | mg/Kg-dry | 10 | 12/28/2015 10:48 | 115161 |
| Anthracene | NELAP | 0.413 | | **0.995** | mg/Kg-dry | 10 | 12/28/2015 10:48 | 115161 |
| Benzo(a)anthracene | NELAP | 0.413 | | **3.58** | mg/Kg-dry | 10 | 12/28/2015 10:48 | 115161 |
| Benzo(a)pyrene | NELAP | 0.413 | | **3.24** | mg/Kg-dry | 10 | 12/28/2015 10:48 | 115161 |
| Benzo(b)fluoranthene | NELAP | 0.413 | | **4.14** | mg/Kg-dry | 10 | 12/28/2015 10:48 | 115161 |
| Benzo(k)fluoranthene | NELAP | 0.413 | | **1.30** | mg/Kg-dry | 10 | 12/28/2015 10:48 | 115161 |
| Chrysene | NELAP | 0.413 | | **3.55** | mg/Kg-dry | 10 | 12/28/2015 10:48 | 115161 |
| Dibenzo(a,h)anthracene | NELAP | 0.413 | | **0.425** | mg/Kg-dry | 10 | 12/28/2015 10:48 | 115161 |
| Fluoranthene | NELAP | 0.413 | | **8.65** | mg/Kg-dry | 10 | 12/28/2015 10:48 | 115161 |
| Fluorene | NELAP | 0.413 | J | **0.38** | mg/Kg-dry | 10 | 12/28/2015 10:48 | 115161 |
| Pyrene | NELAP | 0.413 | | **8.00** | mg/Kg-dry | 10 | 12/28/2015 10:48 | 115161 |
| TPH-DRO (C10 - C21) | | 146 | J | **85** | mg/Kg-dry | 10 | 12/28/2015 10:48 | 115161 |
| TPH-ORO (C21 - C35) | | 146 | | **309** | mg/Kg-dry | 10 | 12/28/2015 10:48 | 115161 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **64.1** | %REC | 10 | 12/28/2015 10:48 | 115161 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **60.7** | %REC | 10 | 12/28/2015 10:48 | 115161 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **80.2** | %REC | 10 | 12/28/2015 10:48 | 115161 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,1-Dichloro-2-propanone | | 49.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,2,3-Trichloropropane | NELAP | 9.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121579-018 **Client Sample ID:** SCI-36A (0-3)

**Matrix:** SOLID **Collection Date:** 12/22/2015 12:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,2-Dichloropropane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,3-Dichloropropane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 1-Chlorobutane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 2,2-Dichloropropane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 2-Butanone | NELAP | 49.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 2-Chlorotoluene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 2-Hexanone | NELAP | 49.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 2-Nitropropane | NELAP | 49.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 4-Chlorotoluene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| 4-Methyl-2-pentanone | NELAP | 49.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Acetone | NELAP | 49.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Acetonitrile | NELAP | 99.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Acrolein | NELAP | 99.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Acrylonitrile | NELAP | 9.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Allyl chloride | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Bromobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Bromochloromethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Bromodichloromethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Bromoform | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Bromomethane | NELAP | 9.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Carbon disulfide | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Carbon tetrachloride | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Chlorobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Chloroethane | NELAP | 9.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Chloroform | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Chloromethane | NELAP | 9.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| cis-1,3-Dichloropropene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Cyclohexanone | | 99.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Dibromochloromethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Dibromomethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Dichlorodifluoromethane | NELAP | 9.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Diisopropyl ether | | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Ethyl ether | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Ethyl methacrylate | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Ethylbenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Ethyl-tert-butyl ether | | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Hexachlorobutadiene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Hexachloroethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Iodomethane | NELAP | 9.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Isopropylbenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| m,p-Xylenes | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-018
**Client Sample ID:** SCI-36A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 12:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 49.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Methylacrylate | NELAP | 9.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Naphthalene | NELAP | 9.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| n-Heptane | | 19.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| n-Hexane | | 19.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Nitrobenzene | NELAP | 99.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Pentachloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Propionitrile | NELAP | 49.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Styrene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| tert-Amyl methyl ether | | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| tert-Butyl alcohol | NELAP | 49.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Tetrahydrofuran | NELAP | 49.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Toluene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| TPH - GRO (C6 - C10) | | 496 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| trans-1,3-Dichloropropene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Vinyl acetate | NELAP | 49.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 14:44 | 115189 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.3** | %REC | 1 | 12/23/2015 14:44 | 115189 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **110.3** | %REC | 1 | 12/23/2015 14:44 | 115189 |
| Surr: Toluene-d8 | | 86-116 | | **108.1** | %REC | 1 | 12/23/2015 14:44 | 115189 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-019
**Client Sample ID:** SCI-36B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 12:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.5** | % | 1 | 12/28/2015 18:49 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **4.88** | mg/Kg-dry | 1 | 12/24/2015 18:59 | 115198 |
| Barium | NELAP | 0.24 | | **70.2** | mg/Kg-dry | 1 | 12/24/2015 18:59 | 115198 |
| Cadmium | NELAP | 0.19 | J | **0.11** | mg/Kg-dry | 1 | 12/24/2015 18:59 | 115198 |
| Chromium | NELAP | 0.48 | | **16.8** | mg/Kg-dry | 1 | 12/24/2015 18:59 | 115198 |
| Lead | NELAP | 1.44 | | **10.8** | mg/Kg-dry | 1 | 12/24/2015 18:59 | 115198 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/24/2015 18:59 | 115198 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/24/2015 18:59 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.033** | mg/Kg-dry | 1 | 12/24/2015 10:20 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:15 | 115187 |
| Anthracene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:15 | 115187 |
| Benzo(a)anthracene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:15 | 115187 |
| Benzo(a)pyrene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:15 | 115187 |
| Benzo(b)fluoranthene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:15 | 115187 |
| Benzo(k)fluoranthene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:15 | 115187 |
| Chrysene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:15 | 115187 |
| Dibenzo(a,h)anthracene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:15 | 115187 |
| Fluoranthene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:15 | 115187 |
| Fluorene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:15 | 115187 |
| Pyrene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:15 | 115187 |
| TPH-DRO (C10 - C21) | | 14.4 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:15 | 115187 |
| TPH-ORO (C21 - C35) | | 14.4 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:15 | 115187 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **72.9** | %REC | 1 | 12/24/2015 11:15 | 115187 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **65.7** | %REC | 1 | 12/24/2015 11:15 | 115187 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **86.3** | %REC | 1 | 12/24/2015 11:15 | 115187 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,1,1-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,1,2-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,1-Dichloro-2-propanone | | 42.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,1-Dichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,1-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,1-Dichloropropene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,2,3-Trichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,2,3-Trichloropropane | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,2,3-Trimethylbenzene | | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,2,4-Trichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,2,4-Trimethylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,2-Dibromoethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,2-Dichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,2-Dichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121579-019 **Client Sample ID:** SCI-36B (16-20)

**Matrix:** SOLID **Collection Date:** 12/22/2015 12:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,3,5-Trimethylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,3-Dichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,3-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1,4-Dichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 1-Chlorobutane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 2,2-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 2-Butanone | NELAP | 42.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 2-Chlorotoluene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 2-Hexanone | NELAP | 42.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 2-Nitropropane | NELAP | 42.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 4-Chlorotoluene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| 4-Methyl-2-pentanone | NELAP | 42.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Acetone | NELAP | 42.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Acetonitrile | NELAP | 85.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Acrolein | NELAP | 85.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Acrylonitrile | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Allyl chloride | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Bromobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Bromochloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Bromodichloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Bromoform | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Bromomethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Carbon disulfide | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Carbon tetrachloride | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Chlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Chloroethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Chloroform | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Chloromethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| cis-1,2-Dichloroethene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Cyclohexanone | | 85.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Dibromochloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Dibromomethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Dichlorodifluoromethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Diisopropyl ether | | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Ethyl ether | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Ethyl methacrylate | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Ethylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Ethyl-tert-butyl ether | | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Hexachlorobutadiene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Hexachloroethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Iodomethane | NELAP | 8.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Isopropylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| m,p-Xylenes | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Methacrylonitrile | NELAP | 42.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-019
**Client Sample ID:** SCI-36B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 12:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Methylacrylate | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Methylene chloride | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Naphthalene | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| n-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| n-Heptane | | 17.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| n-Hexane | | 17.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Nitrobenzene | NELAP | 85.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| n-Propylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| o-Xylene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Pentachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| p-Isopropyltoluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Propionitrile | NELAP | 42.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| sec-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Styrene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| tert-Amyl methyl ether | | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| tert-Butyl alcohol | NELAP | 42.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| tert-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Tetrachloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Tetrahydrofuran | NELAP | 42.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Toluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| TPH - GRO (C6 - C10) | | 429 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| trans-1,2-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Trichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Trichlorofluoromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Vinyl acetate | NELAP | 42.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Xylenes, Total | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:10 | 115189 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **102.0** | %REC | 1 | 12/23/2015 15:10 | 115189 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.1** | %REC | 1 | 12/23/2015 15:10 | 115189 |
| Surr: Toluene-d8 | | 86-116 | | **104.4** | %REC | 1 | 12/23/2015 15:10 | 115189 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-020
**Client Sample ID:** SCI-37A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.6** | % | 1 | 12/28/2015 18:49 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **13.9** | mg/Kg-dry | 1 | 12/24/2015 19:05 | 115198 |
| Barium | NELAP | 0.24 | | **284** | mg/Kg-dry | 1 | 12/24/2015 19:05 | 115198 |
| Cadmium | NELAP | 0.19 | | **2.28** | mg/Kg-dry | 1 | 12/24/2015 19:05 | 115198 |
| Chromium | NELAP | 0.48 | | **24.7** | mg/Kg-dry | 1 | 12/24/2015 19:05 | 115198 |
| Lead | NELAP | 1.44 | | **682** | mg/Kg-dry | 1 | 12/24/2015 19:05 | 115198 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/24/2015 19:05 | 115198 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/24/2015 19:05 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.385** | mg/Kg-dry | 1 | 12/24/2015 10:27 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.410 | | **0.422** | mg/Kg-dry | 10 | 12/25/2015 1:40 | 115187 |
| Anthracene | NELAP | 0.410 | | **0.960** | mg/Kg-dry | 10 | 12/25/2015 1:40 | 115187 |
| Benzo(a)anthracene | NELAP | 0.410 | | **3.91** | mg/Kg-dry | 10 | 12/25/2015 1:40 | 115187 |
| Benzo(a)pyrene | NELAP | 0.410 | | **3.63** | mg/Kg-dry | 10 | 12/25/2015 1:40 | 115187 |
| Benzo(b)fluoranthene | NELAP | 0.410 | | **4.75** | mg/Kg-dry | 10 | 12/25/2015 1:40 | 115187 |
| Benzo(k)fluoranthene | NELAP | 0.410 | | **1.87** | mg/Kg-dry | 10 | 12/25/2015 1:40 | 115187 |
| Chrysene | NELAP | 0.410 | | **3.85** | mg/Kg-dry | 10 | 12/25/2015 1:40 | 115187 |
| Dibenzo(a,h)anthracene | NELAP | 0.410 | | **0.454** | mg/Kg-dry | 10 | 12/25/2015 1:40 | 115187 |
| Fluoranthene | NELAP | 0.410 | | **8.29** | mg/Kg-dry | 10 | 12/25/2015 1:40 | 115187 |
| Fluorene | NELAP | 0.410 | J | **0.31** | mg/Kg-dry | 10 | 12/25/2015 1:40 | 115187 |
| Pyrene | NELAP | 0.410 | | **7.19** | mg/Kg-dry | 10 | 12/25/2015 1:40 | 115187 |
| TPH-DRO (C10 - C21) | | 145 | | **ND** | mg/Kg-dry | 10 | 12/25/2015 1:40 | 115187 |
| TPH-ORO (C21 - C35) | | 145 | J | **120** | mg/Kg-dry | 10 | 12/25/2015 1:40 | 115187 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **68.3** | %REC | 10 | 12/25/2015 1:40 | 115187 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **64.1** | %REC | 10 | 12/25/2015 1:40 | 115187 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.6** | %REC | 10 | 12/25/2015 1:40 | 115187 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,1-Dichloro-2-propanone | | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121579-020 **Client Sample ID:** SCI-37A (0-3)

**Matrix:** SOLID **Collection Date:** 12/22/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 2-Butanone | NELAP | 45.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 2-Hexanone | NELAP | 45.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 2-Nitropropane | NELAP | 45.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| 4-Methyl-2-pentanone | NELAP | 45.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Acetone | NELAP | 45.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Acetonitrile | NELAP | 91.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Acrolein | NELAP | 91.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Cyclohexanone | | 91.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Iodomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121579-020 **Client Sample ID:** SCI-37A (0-3)

**Matrix:** SOLID **Collection Date:** 12/22/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| n-Heptane | | 18.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| n-Hexane | | 18.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Nitrobenzene | NELAP | 91.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Propionitrile | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| tert-Butyl alcohol | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Tetrahydrofuran | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| TPH - GRO (C6 - C10) | | 459 | J | **200** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Vinyl acetate | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 15:37 | 115189 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.7** | %REC | 1 | 12/23/2015 15:37 | 115189 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | S | **117.8** | %REC | 1 | 12/23/2015 15:37 | 115189 |
| Surr: Toluene-d8 | | 86-116 | | **114.5** | %REC | 1 | 12/23/2015 15:37 | 115189 |

*Surrogate recovery is outside QC limits due to matrix interference.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-021
**Client Sample ID:** SCI-37B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.1** | % | 1 | 12/28/2015 18:50 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **9.36** | mg/Kg-dry | 1 | 12/24/2015 19:11 | 115198 |
| Barium | NELAP | 0.24 | | **91.5** | mg/Kg-dry | 1 | 12/24/2015 19:11 | 115198 |
| Cadmium | NELAP | 0.19 | J | **0.16** | mg/Kg-dry | 1 | 12/24/2015 19:11 | 115198 |
| Chromium | NELAP | 0.47 | | **36.3** | mg/Kg-dry | 1 | 12/24/2015 19:11 | 115198 |
| Lead | NELAP | 1.42 | | **15.3** | mg/Kg-dry | 1 | 12/24/2015 19:11 | 115198 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/24/2015 19:11 | 115198 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 12/24/2015 19:11 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.065** | mg/Kg-dry | 1 | 12/24/2015 10:29 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:45 | 115187 |
| Anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:45 | 115187 |
| Benzo(a)anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:45 | 115187 |
| Benzo(a)pyrene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:45 | 115187 |
| Benzo(b)fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:45 | 115187 |
| Benzo(k)fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:45 | 115187 |
| Chrysene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:45 | 115187 |
| Dibenzo(a,h)anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:45 | 115187 |
| Fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:45 | 115187 |
| Fluorene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:45 | 115187 |
| Pyrene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:45 | 115187 |
| TPH-DRO (C10 - C21) | | 14.7 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:45 | 115187 |
| TPH-ORO (C21 - C35) | | 14.7 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 11:45 | 115187 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **73.1** | %REC | 1 | 12/24/2015 11:45 | 115187 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.3** | %REC | 1 | 12/24/2015 11:45 | 115187 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **86.2** | %REC | 1 | 12/24/2015 11:45 | 115187 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,1,1-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,1,2-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,1-Dichloro-2-propanone | | 48.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,1-Dichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,1-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,1-Dichloropropene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,2,3-Trichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,2,3-Trichloropropane | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,2,3-Trimethylbenzene | | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,2,4-Trichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,2,4-Trimethylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,2-Dibromoethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,2-Dichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,2-Dichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121579-021 **Client Sample ID:** SCI-37B (16-20)

**Matrix:** SOLID **Collection Date:** 12/22/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,3,5-Trimethylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,3-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,3-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1,4-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 1-Chlorobutane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 2,2-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 2-Butanone | NELAP | 48.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 2-Chlorotoluene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 2-Hexanone | NELAP | 48.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 2-Nitropropane | NELAP | 48.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 4-Chlorotoluene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| 4-Methyl-2-pentanone | NELAP | 48.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Acetone | NELAP | 48.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Acetonitrile | NELAP | 96.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Acrolein | NELAP | 96.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Acrylonitrile | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Allyl chloride | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Bromobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Bromochloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Bromodichloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Bromoform | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Bromomethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Carbon disulfide | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Carbon tetrachloride | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Chlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Chloroethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Chloroform | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Chloromethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| cis-1,2-Dichloroethene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Cyclohexanone | | 96.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Dibromochloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Dibromomethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Dichlorodifluoromethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Diisopropyl ether | | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Ethyl ether | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Ethyl methacrylate | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Ethylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Ethyl-tert-butyl ether | | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Hexachlorobutadiene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Hexachloroethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Iodomethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Isopropylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| m,p-Xylenes | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Methacrylonitrile | NELAP | 48.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-021
**Client Sample ID:** SCI-37B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Methylacrylate | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Methylene chloride | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Naphthalene | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| n-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| n-Heptane | | 19.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| n-Hexane | | 19.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Nitrobenzene | NELAP | 96.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| n-Propylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| o-Xylene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Pentachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| p-Isopropyltoluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Propionitrile | NELAP | 48.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| sec-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Styrene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| tert-Amyl methyl ether | | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| tert-Butyl alcohol | NELAP | 48.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| tert-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Tetrachloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Tetrahydrofuran | NELAP | 48.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Toluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| TPH - GRO (C6 - C10) | | 481 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| trans-1,2-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Trichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Trichlorofluoromethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Vinyl acetate | NELAP | 48.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Xylenes, Total | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:03 | 115189 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.6** | %REC | 1 | 12/23/2015 16:03 | 115189 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.9** | %REC | 1 | 12/23/2015 16:03 | 115189 |
| Surr: Toluene-d8 | | 86-116 | | **105.0** | %REC | 1 | 12/23/2015 16:03 | 115189 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-022
**Client Sample ID:** SCI-38A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.6** | % | 1 | 12/28/2015 19:03 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **13.0** | mg/Kg-dry | 1 | 12/24/2015 19:17 | 115198 |
| Barium | NELAP | 0.25 | | **172** | mg/Kg-dry | 1 | 12/24/2015 19:17 | 115198 |
| Cadmium | NELAP | 0.20 | J | **0.07** | mg/Kg-dry | 1 | 12/24/2015 19:17 | 115198 |
| Chromium | NELAP | 0.50 | | **24.8** | mg/Kg-dry | 1 | 12/24/2015 19:17 | 115198 |
| Lead | NELAP | 1.50 | | **17.7** | mg/Kg-dry | 1 | 12/24/2015 19:17 | 115198 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 19:17 | 115198 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 12/24/2015 19:17 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.021** | mg/Kg-dry | 1 | 12/24/2015 10:32 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0414 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:15 | 115187 |
| Anthracene | NELAP | 0.0414 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:15 | 115187 |
| Benzo(a)anthracene | NELAP | 0.0414 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:15 | 115187 |
| Benzo(a)pyrene | NELAP | 0.0414 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:15 | 115187 |
| Benzo(b)fluoranthene | NELAP | 0.0414 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:15 | 115187 |
| Benzo(k)fluoranthene | NELAP | 0.0414 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:15 | 115187 |
| Chrysene | NELAP | 0.0414 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:15 | 115187 |
| Dibenzo(a,h)anthracene | NELAP | 0.0414 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:15 | 115187 |
| Fluoranthene | NELAP | 0.0414 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:15 | 115187 |
| Fluorene | NELAP | 0.0414 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:15 | 115187 |
| Pyrene | NELAP | 0.0414 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:15 | 115187 |
| TPH-DRO (C10 - C21) | | 14.6 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:15 | 115187 |
| TPH-ORO (C21 - C35) | | 14.6 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:15 | 115187 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **66.3** | %REC | 1 | 12/24/2015 13:15 | 115187 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **60.8** | %REC | 1 | 12/24/2015 13:15 | 115187 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **82.2** | %REC | 1 | 12/24/2015 13:15 | 115187 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,1-Dichloro-2-propanone | | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,2,3-Trichloropropane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,2-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121579-022 **Client Sample ID:** SCI-38A (0-3)

**Matrix:** SOLID **Collection Date:** 12/22/2015 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 2-Butanone | NELAP | 45.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 2-Hexanone | NELAP | 45.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 2-Nitropropane | NELAP | 45.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| 4-Methyl-2-pentanone | NELAP | 45.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Acetone | NELAP | 45.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Acetonitrile | NELAP | 90.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Acrolein | NELAP | 90.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Acrylonitrile | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Bromomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Chloroethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Chloromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Cyclohexanone | | 90.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Dichlorodifluoromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Iodomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Methacrylonitrile | NELAP | 45.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-022
**Client Sample ID:** SCI-38A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Methylacrylate | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Naphthalene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| n-Heptane | | 18.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| n-Hexane | | 18.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Nitrobenzene | NELAP | 90.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Propionitrile | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| tert-Butyl alcohol | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Tetrahydrofuran | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| TPH - GRO (C6 - C10) | | 454 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Vinyl acetate | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:29 | 115189 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.7** | %REC | 1 | 12/23/2015 16:29 | 115189 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **104.1** | %REC | 1 | 12/23/2015 16:29 | 115189 |
| Surr: Toluene-d8 | | 86-116 | | **104.1** | %REC | 1 | 12/23/2015 16:29 | 115189 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-023
**Client Sample ID:** SCI-38B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.1** | % | 1 | 12/28/2015 19:03 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **5.24** | mg/Kg-dry | 1 | 12/24/2015 19:23 | 115198 |
| Barium | NELAP | 0.25 | | **94.8** | mg/Kg-dry | 1 | 12/24/2015 19:23 | 115198 |
| Cadmium | NELAP | 0.20 | J | **0.10** | mg/Kg-dry | 1 | 12/24/2015 19:23 | 115198 |
| Chromium | NELAP | 0.50 | | **25.8** | mg/Kg-dry | 1 | 12/24/2015 19:23 | 115198 |
| Lead | NELAP | 1.50 | | **9.80** | mg/Kg-dry | 1 | 12/24/2015 19:23 | 115198 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 19:23 | 115198 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 12/24/2015 19:23 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.024** | mg/Kg-dry | 1 | 12/24/2015 10:34 | 115207 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:45 | 115187 |
| Anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:45 | 115187 |
| Benzo(a)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:45 | 115187 |
| Benzo(a)pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:45 | 115187 |
| Benzo(b)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:45 | 115187 |
| Benzo(k)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:45 | 115187 |
| Chrysene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:45 | 115187 |
| Dibenzo(a,h)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:45 | 115187 |
| Fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:45 | 115187 |
| Fluorene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:45 | 115187 |
| Pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:45 | 115187 |
| TPH-DRO (C10 - C21) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:45 | 115187 |
| TPH-ORO (C21 - C35) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 13:45 | 115187 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.3** | %REC | 1 | 12/24/2015 13:45 | 115187 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **65.0** | %REC | 1 | 12/24/2015 13:45 | 115187 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **84.7** | %REC | 1 | 12/24/2015 13:45 | 115187 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,1-Dichloro-2-propanone | | 43.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,2,3-Trichloropropane | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121579-023
**Matrix:** SOLID

**Work Order:** 15121579
**Report Date:** 29-Dec-15
**Client Sample ID:** SCI-38B (16-20)
**Collection Date:** 12/22/2015 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 2-Butanone | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 2-Hexanone | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 2-Nitropropane | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| 4-Methyl-2-pentanone | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Acetone | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Acetonitrile | NELAP | 87.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Acrolein | NELAP | 87.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Acrylonitrile | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Bromomethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Chloroethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Chloromethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Cyclohexanone | | 87.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Dichlorodifluoromethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Iodomethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Methacrylonitrile | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-023
**Client Sample ID:** SCI-38B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Methylacrylate | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Naphthalene | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| n-Heptane | | 17.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| n-Hexane | | 17.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Nitrobenzene | NELAP | 87.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Propionitrile | NELAP | 43.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| tert-Butyl alcohol | NELAP | 43.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Tetrahydrofuran | NELAP | 43.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| TPH - GRO (C6 - C10) | | 436 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Vinyl acetate | NELAP | 43.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 16:56 | 115189 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.2** | %REC | 1 | 12/23/2015 16:56 | 115189 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.3** | %REC | 1 | 12/23/2015 16:56 | 115189 |
| Surr: Toluene-d8 | | 86-116 | | **104.4** | %REC | 1 | 12/23/2015 16:56 | 115189 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121579-024 **Client Sample ID:** SCI-39A (0-3)

**Matrix:** SOLID **Collection Date:** 12/22/2015 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **15.0** | % | 1 | 12/28/2015 19:04 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **10.2** | mg/Kg-dry | 1 | 12/24/2015 19:42 | 115198 |
| Barium | NELAP | 0.24 | | **185** | mg/Kg-dry | 1 | 12/24/2015 19:42 | 115198 |
| Cadmium | NELAP | 0.19 | | **0.29** | mg/Kg-dry | 1 | 12/24/2015 19:42 | 115198 |
| Chromium | NELAP | 0.48 | | **19.7** | mg/Kg-dry | 1 | 12/24/2015 19:42 | 115198 |
| Lead | NELAP | 1.44 | | **108** | mg/Kg-dry | 1 | 12/24/2015 19:42 | 115198 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/24/2015 19:42 | 115198 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/24/2015 19:42 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.259** | mg/Kg-dry | 1 | 12/24/2015 9:07 | 115209 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.199 | | **ND** | mg/Kg-dry | 5 | 12/25/2015 1:10 | 115187 |
| Anthracene | NELAP | 0.199 | | **ND** | mg/Kg-dry | 5 | 12/25/2015 1:10 | 115187 |
| Benzo(a)anthracene | NELAP | 0.199 | J | **0.15** | mg/Kg-dry | 5 | 12/25/2015 1:10 | 115187 |
| Benzo(a)pyrene | NELAP | 0.199 | J | **0.11** | mg/Kg-dry | 5 | 12/25/2015 1:10 | 115187 |
| Benzo(b)fluoranthene | NELAP | 0.199 | J | **0.16** | mg/Kg-dry | 5 | 12/25/2015 1:10 | 115187 |
| Benzo(k)fluoranthene | NELAP | 0.199 | | **ND** | mg/Kg-dry | 5 | 12/25/2015 1:10 | 115187 |
| Chrysene | NELAP | 0.199 | J | **0.11** | mg/Kg-dry | 5 | 12/25/2015 1:10 | 115187 |
| Dibenzo(a,h)anthracene | NELAP | 0.199 | | **ND** | mg/Kg-dry | 5 | 12/25/2015 1:10 | 115187 |
| Fluoranthene | NELAP | 0.199 | | **0.252** | mg/Kg-dry | 5 | 12/25/2015 1:10 | 115187 |
| Fluorene | NELAP | 0.199 | | **ND** | mg/Kg-dry | 5 | 12/25/2015 1:10 | 115187 |
| Pyrene | NELAP | 0.199 | | **0.223** | mg/Kg-dry | 5 | 12/25/2015 1:10 | 115187 |
| TPH-DRO (C10 - C21) | | 70.3 | | **ND** | mg/Kg-dry | 5 | 12/25/2015 1:10 | 115187 |
| TPH-ORO (C21 - C35) | | 70.3 | | **ND** | mg/Kg-dry | 5 | 12/25/2015 1:10 | 115187 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.9** | %REC | 5 | 12/25/2015 1:10 | 115187 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **67.3** | %REC | 5 | 12/25/2015 1:10 | 115187 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **91.0** | %REC | 5 | 12/25/2015 1:10 | 115187 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,1-Dichloro-2-propanone | | 44.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,2,3-Trichloropropane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121579-024 **Client Sample ID:** SCI-39A (0-3)

**Matrix:** SOLID **Collection Date:** 12/22/2015 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 2-Butanone | NELAP | 44.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 2-Hexanone | NELAP | 44.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 2-Nitropropane | NELAP | 44.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| 4-Methyl-2-pentanone | NELAP | 44.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Acetone | NELAP | 44.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Acetonitrile | NELAP | 89.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Acrolein | NELAP | 89.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Acrylonitrile | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Bromomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Chloroethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Chloromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Cyclohexanone | | 89.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Dichlorodifluoromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Iodomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121579-024 **Client Sample ID:** SCI-39A (0-3)

**Matrix:** SOLID **Collection Date:** 12/22/2015 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 44.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Methylacrylate | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Naphthalene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| n-Heptane | | 17.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| n-Hexane | | 17.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Nitrobenzene | NELAP | 89.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Propionitrile | NELAP | 44.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| tert-Butyl alcohol | NELAP | 44.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Tetrahydrofuran | NELAP | 44.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| TPH - GRO (C6 - C10) | | 447 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Vinyl acetate | NELAP | 44.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:22 | 115189 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **109.8** | %REC | 1 | 12/23/2015 17:22 | 115189 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.9** | %REC | 1 | 12/23/2015 17:22 | 115189 |
| Surr: Toluene-d8 | | 86-116 | | **103.8** | %REC | 1 | 12/23/2015 17:22 | 115189 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-025
**Client Sample ID:** SCI-39B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **22.9** | % | 1 | 12/28/2015 19:04 | R213172 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **6.70** | mg/Kg-dry | 1 | 12/24/2015 19:48 | 115198 |
| Barium | NELAP | 0.24 | | **73.1** | mg/Kg-dry | 1 | 12/24/2015 19:48 | 115198 |
| Cadmium | NELAP | 0.19 | J | **0.12** | mg/Kg-dry | 1 | 12/24/2015 19:48 | 115198 |
| Chromium | NELAP | 0.47 | | **23.9** | mg/Kg-dry | 1 | 12/24/2015 19:48 | 115198 |
| Lead | NELAP | 1.42 | | **9.79** | mg/Kg-dry | 1 | 12/24/2015 19:48 | 115198 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/24/2015 19:48 | 115198 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 12/24/2015 19:48 | 115198 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.023** | mg/Kg-dry | 1 | 12/24/2015 9:10 | 115209 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115187 |
| Anthracene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115187 |
| Benzo(a)anthracene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115187 |
| Benzo(a)pyrene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115187 |
| Benzo(b)fluoranthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115187 |
| Benzo(k)fluoranthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115187 |
| Chrysene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115187 |
| Dibenzo(a,h)anthracene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115187 |
| Fluoranthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115187 |
| Fluorene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115187 |
| Pyrene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115187 |
| TPH-DRO (C10 - C21) | | 15.4 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115187 |
| TPH-ORO (C21 - C35) | | 15.4 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 14:15 | 115187 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **62.4** | %REC | 1 | 12/24/2015 14:15 | 115187 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **62.6** | %REC | 1 | 12/24/2015 14:15 | 115187 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **79.7** | %REC | 1 | 12/24/2015 14:15 | 115187 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,1,1-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,1,2-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,1-Dichloro-2-propanone | | 47.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,1-Dichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,1-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,1-Dichloropropene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,2,3-Trichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,2,3-Trichloropropane | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,2,3-Trimethylbenzene | | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,2,4-Trichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,2,4-Trimethylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,2-Dibromoethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,2-Dichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,2-Dichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-025
**Client Sample ID:** SCI-39B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,3,5-Trimethylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,3-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,3-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1,4-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 1-Chlorobutane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 2,2-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 2-Butanone | NELAP | 47.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 2-Chlorotoluene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 2-Hexanone | NELAP | 47.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 2-Nitropropane | NELAP | 47.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 4-Chlorotoluene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| 4-Methyl-2-pentanone | NELAP | 47.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Acetone | NELAP | 47.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Acetonitrile | NELAP | 95.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Acrolein | NELAP | 95.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Acrylonitrile | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Allyl chloride | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Bromobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Bromochloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Bromodichloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Bromoform | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Bromomethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Carbon disulfide | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Carbon tetrachloride | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Chlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Chloroethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Chloroform | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Chloromethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| cis-1,2-Dichloroethene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Cyclohexanone | | 95.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Dibromochloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Dibromomethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Dichlorodifluoromethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Diisopropyl ether | | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Ethyl ether | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Ethyl methacrylate | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Ethylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Ethyl-tert-butyl ether | | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Hexachlorobutadiene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Hexachloroethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Iodomethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Isopropylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| m,p-Xylenes | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Methacrylonitrile | NELAP | 47.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121579
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121579-025
**Client Sample ID:** SCI-39B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/22/2015 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Methylacrylate | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Methylene chloride | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Naphthalene | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| n-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| n-Heptane | | 19.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| n-Hexane | | 19.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Nitrobenzene | NELAP | 95.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| n-Propylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| o-Xylene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Pentachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| p-Isopropyltoluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Propionitrile | NELAP | 47.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| sec-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Styrene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| tert-Amyl methyl ether | | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| tert-Butyl alcohol | NELAP | 47.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| tert-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Tetrachloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Tetrahydrofuran | NELAP | 47.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Toluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| TPH - GRO (C6 - C10) | | 476 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| trans-1,2-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Trichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Trichlorofluoromethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Vinyl acetate | NELAP | 47.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Xylenes, Total | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 17:49 | 115189 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.5** | %REC | 1 | 12/23/2015 17:49 | 115189 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.2** | %REC | 1 | 12/23/2015 17:49 | 115189 |
| Surr: Toluene-d8 | | 86-116 | | **104.5** | %REC | 1 | 12/23/2015 17:49 | 115189 |

# Quality Control Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121579
**Report Date:** 29-Dec-15

## EPA SW846 3550C, 5035A, ASTM D2974

**Batch** R213172 **SampType:** LCS Units **%**
SampID: LCS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 12/28/2015 |

**Batch** R213172 **SampType:** LCSQC Units **%**
SampID: LCSQC

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 12/28/2015 |

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115193 **SampType:** MBLK Units **mg/Kg-dry**
SampID: MBLK-115193

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Barium | 0.25 | | **< 0.25** | 0.2500 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Silver | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 12/24/2015 |

**Batch** 115193 **SampType:** LCS Units **mg/Kg-dry**
SampID: LCS-115193

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **49.4** | 50.00 | 0 | 98.8 | 85 | 115 | 12/24/2015 |
| Barium | 0.25 | | **200** | 200.0 | 0 | 100.0 | 85 | 115 | 12/24/2015 |
| Cadmium | 0.20 | | **5.01** | 5.000 | 0 | 100.2 | 85 | 115 | 12/24/2015 |
| Chromium | 0.50 | | **21.1** | 20.00 | 0 | 105.6 | 85 | 115 | 12/24/2015 |
| Lead | 1.50 | | **52.7** | 50.00 | 0 | 105.4 | 85 | 115 | 12/24/2015 |
| Selenium | 4.00 | | **49.6** | 50.00 | 0 | 99.1 | 85 | 115 | 12/24/2015 |
| Silver | 0.50 | | **4.77** | 5.000 | 0 | 95.4 | 85 | 115 | 12/24/2015 |

**Batch** 115193 **SampType:** MS Units **mg/Kg-dry**
SampID: 15121306-001AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.47 | | **110** | 49.02 | 69.67 | 82.1 | 75 | 125 | 12/24/2015 |

**Batch** 115193 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**
SampID: 15121306-001AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.47 | | **110** | 49.02 | 69.67 | 81.7 | 109.9 | 0.18 | 12/24/2015 |

# Quality Control Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121579
**Report Date:** 29-Dec-15

## SW-846 3050B, 6010B, METALS BY ICP

**Batch 115193** **SampType: MS** Units **mg/Kg-dry**
SampID: 15121319-001AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Cadmium | 0.39 | S | **35.1** | 4.902 | 24.10 | 224.4 | 75 | 125 | 12/24/2015 |

**Batch 115193** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **20**
SampID: 15121319-001AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Cadmium | 0.39 | | **29.6** | 4.902 | 24.10 | 112.4 | 35.10 | 16.97 | 12/24/2015 |

**Batch 115193** **SampType: MS** Units **mg/Kg-dry**
SampID: 15121356-007AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.50 | | **7.39** | 5.000 | 2.570 | 96.4 | 75 | 125 | 12/24/2015 |

**Batch 115193** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **20**
SampID: 15121356-007AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.50 | | **6.82** | 5.000 | 2.570 | 85.0 | 7.390 | 8.02 | 12/24/2015 |

**Batch 115198** **SampType: MBLK** Units **mg/Kg-dry**
SampID: MBLK-115198

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Barium | 0.25 | | **< 0.25** | 0.2500 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Silver | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 12/24/2015 |

**Batch 115198** **SampType: LCS** Units **mg/Kg-dry**
SampID: LCS-115198

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **48.7** | 50.00 | 0 | 97.4 | 85 | 115 | 12/24/2015 |
| Barium | 0.25 | | **203** | 200.0 | 0 | 101.7 | 85 | 115 | 12/24/2015 |
| Cadmium | 0.20 | | **5.01** | 5.000 | 0 | 100.2 | 85 | 115 | 12/24/2015 |
| Chromium | 0.50 | | **21.5** | 20.00 | 0 | 107.4 | 85 | 115 | 12/24/2015 |
| Lead | 1.50 | | **52.8** | 50.00 | 0 | 105.6 | 85 | 115 | 12/24/2015 |
| Selenium | 4.00 | | **51.0** | 50.00 | 0 | 102.0 | 85 | 115 | 12/24/2015 |
| Silver | 0.50 | | **4.94** | 5.000 | 0 | 98.8 | 85 | 115 | 12/24/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121579
**Report Date:** 29-Dec-15

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115198 **SampType:** MS Units **mg/Kg-dry**
SampID: 15121579-008AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **53.1** | 50.00 | 6.390 | 93.4 | 75 | 125 | 12/24/2015 |
| Barium | 0.25 | | **391** | 200.0 | 185.3 | 102.8 | 75 | 125 | 12/24/2015 |
| Cadmium | 0.20 | | **4.94** | 5.000 | 0.1100 | 96.6 | 75 | 125 | 12/24/2015 |
| Chromium | 0.50 | | **35.0** | 20.00 | 12.97 | 110.4 | 75 | 125 | 12/24/2015 |
| Lead | 1.50 | | **64.3** | 50.00 | 12.52 | 103.6 | 75 | 125 | 12/24/2015 |
| Selenium | 4.00 | | **47.2** | 50.00 | 0 | 94.4 | 75 | 125 | 12/24/2015 |
| Silver | 0.50 | | **4.40** | 5.000 | 0 | 88.0 | 75 | 125 | 12/24/2015 |

**Batch** 115198 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**
SampID: 15121579-008AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **53.7** | 50.00 | 6.390 | 94.6 | 53.08 | 1.11 | 12/24/2015 |
| Barium | 0.25 | | **399** | 200.0 | 185.3 | 107.0 | 390.8 | 2.15 | 12/24/2015 |
| Cadmium | 0.20 | | **4.99** | 5.000 | 0.1100 | 97.6 | 4.940 | 1.01 | 12/24/2015 |
| Chromium | 0.50 | | **35.4** | 20.00 | 12.97 | 112.0 | 35.04 | 0.91 | 12/24/2015 |
| Lead | 1.50 | | **65.1** | 50.00 | 12.52 | 105.1 | 64.34 | 1.16 | 12/24/2015 |
| Selenium | 4.00 | | **47.5** | 50.00 | 0 | 94.9 | 47.19 | 0.55 | 12/24/2015 |
| Silver | 0.50 | | **4.26** | 5.000 | 0 | 85.2 | 4.400 | 3.23 | 12/24/2015 |

**Batch** 115198 **SampType:** MS Units **mg/Kg-dry**
SampID: 15121579-017AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.36 | | **51.2** | 47.17 | 8.453 | 90.6 | 75 | 125 | 12/24/2015 |
| Barium | 0.24 | | **297** | 188.7 | 83.04 | 113.5 | 75 | 125 | 12/24/2015 |
| Cadmium | 0.19 | | **4.58** | 4.717 | 0.07547 | 95.6 | 75 | 125 | 12/24/2015 |
| Chromium | 0.47 | | **50.8** | 18.87 | 33.58 | 91.3 | 75 | 125 | 12/24/2015 |
| Lead | 1.42 | | **64.3** | 47.17 | 16.11 | 102.2 | 75 | 125 | 12/24/2015 |
| Selenium | 3.77 | | **42.2** | 47.17 | 0 | 89.5 | 75 | 125 | 12/24/2015 |
| Silver | 0.47 | | **4.13** | 4.717 | 0 | 87.6 | 75 | 125 | 12/28/2015 |

**Batch** 115198 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**
SampID: 15121579-017AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.36 | | **51.7** | 47.17 | 8.453 | 91.8 | 51.20 | 1.06 | 12/24/2015 |
| Barium | 0.24 | | **271** | 188.7 | 83.04 | 99.8 | 297.2 | 9.06 | 12/24/2015 |
| Cadmium | 0.19 | | **4.66** | 4.717 | 0.07547 | 97.2 | 4.585 | 1.63 | 12/24/2015 |
| Chromium | 0.47 | | **56.3** | 18.87 | 33.58 | 120.4 | 50.80 | 10.25 | 12/24/2015 |
| Lead | 1.42 | | **63.6** | 47.17 | 16.11 | 100.6 | 64.32 | 1.20 | 12/24/2015 |
| Selenium | 3.77 | | **43.1** | 47.17 | 0 | 91.3 | 42.22 | 2.03 | 12/24/2015 |
| Silver | 0.47 | | **4.15** | 4.717 | 0 | 88.0 | 4.132 | 0.46 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 7471B

**Batch 115207** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115207

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **< 0.010** | 0.01000 | 0 | 0 | -100 | 100 | 12/24/2015 |

**Batch 115207** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115207

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.260** | 0.2500 | 0 | 103.9 | 85 | 115 | 12/24/2015 |

**Batch 115207** **SampType: MS** Units **mg/Kg-dry**

SampID: 15121579-005AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.013 | | **0.382** | 0.3149 | 0.02739 | 112.6 | 75 | 125 | 12/24/2015 |

**Batch 115207** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**

SampID: 15121579-005AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.013 | | **0.369** | 0.3149 | 0.02739 | 108.4 | 0.3820 | 3.51 | 12/24/2015 |

**Batch 115207** **SampType: MS** Units **mg/Kg-dry**

SampID: 15121579-012AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.363** | 0.3029 | 0.02675 | 111.0 | 75 | 125 | 12/24/2015 |

**Batch 115207** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**

SampID: 15121579-012AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.361** | 0.3029 | 0.02675 | 110.3 | 0.3630 | 0.60 | 12/24/2015 |

**Batch 115209** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115209

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **< 0.010** | 0.01000 | 0 | 0 | -100 | 100 | 12/24/2015 |

**Batch 115209** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115209

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.251** | 0.2500 | 0 | 100.3 | 85 | 115 | 12/24/2015 |

**Batch 115209** **SampType: MS** Units **mg/Kg-dry**

SampID: 15121579-025AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.013 | | **0.361** | 0.3244 | 0.02298 | 104.1 | 75 | 125 | 12/24/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 7471B

**Batch** 115209 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **15**

SampID: 15121579-025AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.013 | | **0.349** | 0.3244 | 0.02298 | 100.6 | 0.3606 | 3.16 | 12/24/2015 |

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115161 **SampType:** MBLK Units **mg/Kg**

SampID: MBLK-115161

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **ND** | | | | | | 12/23/2015 |
| Anthracene | 0.0340 | | **ND** | | | | | | 12/23/2015 |
| Benzo(a)anthracene | 0.0340 | | **ND** | | | | | | 12/23/2015 |
| Benzo(a)pyrene | 0.0340 | | **ND** | | | | | | 12/23/2015 |
| Benzo(b)fluoranthene | 0.0340 | | **ND** | | | | | | 12/23/2015 |
| Benzo(k)fluoranthene | 0.0340 | | **ND** | | | | | | 12/23/2015 |
| Chrysene | 0.0340 | | **ND** | | | | | | 12/23/2015 |
| Dibenzo(a,h)anthracene | 0.0340 | | **ND** | | | | | | 12/23/2015 |
| Fluoranthene | 0.0340 | | **ND** | | | | | | 12/23/2015 |
| Fluorene | 0.0340 | | **ND** | | | | | | 12/23/2015 |
| Pyrene | 0.0340 | | **ND** | | | | | | 12/23/2015 |
| TPH-DRO (C10 - C21) | 12.0 | | **ND** | | | | | | 12/23/2015 |
| TPH-ORO (C21 - C35) | 12.0 | | **ND** | | | | | | 12/23/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.691** | 0.8350 | | 82.7 | 42.6 | 97.2 | 12/23/2015 |
| Surr: Nitrobenzene-d5 | | | **0.635** | 0.8350 | | 76.0 | 16.7 | 118 | 12/23/2015 |
| Surr: p-Terphenyl-d14 | | | **0.774** | 0.8350 | | 92.7 | 50.1 | 111 | 12/23/2015 |

**Batch** 115161 **SampType:** LCS Units **mg/Kg**

SampID: LCS-115161

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **1.30** | 1.670 | 0 | 78.0 | 56.4 | 104 | 12/23/2015 |
| Anthracene | 0.0340 | | **1.20** | 1.670 | 0 | 71.9 | 55.9 | 101 | 12/23/2015 |
| Benzo(a)anthracene | 0.0340 | | **1.23** | 1.670 | 0 | 73.8 | 51.7 | 107 | 12/23/2015 |
| Benzo(a)pyrene | 0.0340 | | **1.29** | 1.670 | 0 | 77.5 | 57.2 | 114 | 12/23/2015 |
| Benzo(b)fluoranthene | 0.0340 | | **1.26** | 1.670 | 0 | 75.2 | 45.3 | 116 | 12/23/2015 |
| Benzo(k)fluoranthene | 0.0340 | | **1.32** | 1.670 | 0 | 79.3 | 58.2 | 114 | 12/23/2015 |
| Chrysene | 0.0340 | | **1.23** | 1.670 | 0 | 73.8 | 58.9 | 102 | 12/23/2015 |
| Dibenzo(a,h)anthracene | 0.0340 | | **1.38** | 1.670 | 0 | 82.7 | 48.9 | 123 | 12/23/2015 |
| Fluoranthene | 0.0340 | | **1.23** | 1.670 | 0 | 73.5 | 54.9 | 108 | 12/23/2015 |
| Fluorene | 0.0340 | | **1.25** | 1.670 | 0 | 74.7 | 58 | 101 | 12/23/2015 |
| Pyrene | 0.0340 | | **1.24** | 1.670 | 0 | 74.3 | 53.4 | 107 | 12/23/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.622** | 0.8350 | | 74.5 | 42.6 | 97.2 | 12/23/2015 |
| Surr: Nitrobenzene-d5 | | | **0.766** | 0.8350 | | 91.8 | 16.7 | 118 | 12/23/2015 |
| Surr: p-Terphenyl-d14 | | | **0.678** | 0.8350 | | 81.2 | 50.1 | 111 | 12/23/2015 |

# Quality Control Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121579
**Report Date:** 29-Dec-15

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115161** **SampType: LCSG** Units **mg/Kg**
SampID: LCSDRO-115161

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 12.0 | | **24.4** | 33.40 | 0 | 73.0 | 53.7 | 103 | 12/23/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.676** | 0.8350 | | 80.9 | 42.6 | 97.2 | 12/23/2015 |
| Surr: Nitrobenzene-d5 | | | **0.579** | 0.8350 | | 69.3 | 16.7 | 118 | 12/23/2015 |
| Surr: p-Terphenyl-d14 | | | **0.739** | 0.8350 | | 88.5 | 50.1 | 111 | 12/23/2015 |

**Batch 115161** **SampType: MS** Units **mg/Kg-dry**
SampID: 15121510-005AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 13.5 | | **25.3** | 37.66 | 0 | 67.1 | 34.5 | 160 | 12/23/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.483** | 0.9416 | | 51.3 | 12 | 133 | 12/23/2015 |
| Surr: Nitrobenzene-d5 | | | **0.521** | 0.9416 | | 55.4 | 30.9 | 115 | 12/23/2015 |
| Surr: p-Terphenyl-d14 | | | **0.772** | 0.9416 | | 82.0 | 31.5 | 137 | 12/23/2015 |

**Batch 115161** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **30**
SampID: 15121510-005AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 13.6 | | **25.8** | 37.84 | 0 | 68.2 | 25.27 | 2.15 | 12/23/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.545** | 0.9460 | | 57.6 | | | 12/23/2015 |
| Surr: Nitrobenzene-d5 | | | **0.543** | 0.9460 | | 57.4 | | | 12/23/2015 |
| Surr: p-Terphenyl-d14 | | | **0.797** | 0.9460 | | 84.3 | | | 12/23/2015 |

**Batch 115187** **SampType: MBLK** Units **mg/Kg**
SampID: MBLK-115187

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **ND** | | | | | | 12/24/2015 |
| Anthracene | 0.0340 | | **ND** | | | | | | 12/24/2015 |
| Benzo(a)anthracene | 0.0340 | | **ND** | | | | | | 12/24/2015 |
| Benzo(a)pyrene | 0.0340 | | **ND** | | | | | | 12/24/2015 |
| Benzo(b)fluoranthene | 0.0340 | | **ND** | | | | | | 12/24/2015 |
| Benzo(k)fluoranthene | 0.0340 | | **ND** | | | | | | 12/24/2015 |
| Chrysene | 0.0340 | | **ND** | | | | | | 12/24/2015 |
| Dibenzo(a,h)anthracene | 0.0340 | | **ND** | | | | | | 12/24/2015 |
| Fluoranthene | 0.0340 | | **ND** | | | | | | 12/24/2015 |
| Fluorene | 0.0340 | | **ND** | | | | | | 12/24/2015 |
| Pyrene | 0.0340 | | **ND** | | | | | | 12/24/2015 |
| TPH-DRO (C10 - C21) | 12.0 | | **ND** | | | | | | 12/24/2015 |
| TPH-ORO (C21 - C35) | 12.0 | | **ND** | | | | | | 12/24/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.603** | 0.8350 | | 72.2 | 42.6 | 97.2 | 12/24/2015 |
| Surr: Nitrobenzene-d5 | | | **0.554** | 0.8350 | | 66.3 | 16.7 | 118 | 12/24/2015 |
| Surr: p-Terphenyl-d14 | | | **0.716** | 0.8350 | | 85.7 | 50.1 | 111 | 12/24/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115187** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115187

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **1.31** | 1.670 | 0 | 78.3 | 56.4 | 104 | 12/24/2015 |
| Anthracene | 0.0340 | | **1.22** | 1.670 | 0 | 73.3 | 55.9 | 101 | 12/24/2015 |
| Benzo(a)anthracene | 0.0340 | | **1.29** | 1.670 | 0 | 77.3 | 51.7 | 107 | 12/24/2015 |
| Benzo(a)pyrene | 0.0340 | | **1.35** | 1.670 | 0 | 81.0 | 57.2 | 114 | 12/24/2015 |
| Benzo(b)fluoranthene | 0.0340 | | **1.31** | 1.670 | 0 | 78.4 | 45.3 | 116 | 12/24/2015 |
| Benzo(k)fluoranthene | 0.0340 | | **1.37** | 1.670 | 0 | 82.1 | 58.2 | 114 | 12/24/2015 |
| Chrysene | 0.0340 | | **1.30** | 1.670 | 0 | 78.0 | 58.9 | 102 | 12/24/2015 |
| Dibenzo(a,h)anthracene | 0.0340 | | **1.44** | 1.670 | 0 | 86.4 | 48.9 | 123 | 12/24/2015 |
| Fluoranthene | 0.0340 | | **1.29** | 1.670 | 0 | 77.2 | 54.9 | 108 | 12/24/2015 |
| Fluorene | 0.0340 | | **1.26** | 1.670 | 0 | 75.2 | 58 | 101 | 12/24/2015 |
| Pyrene | 0.0340 | | **1.32** | 1.670 | 0 | 79.3 | 53.4 | 107 | 12/24/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.628** | 0.8350 | | 75.2 | 42.6 | 97.2 | 12/24/2015 |
| Surr: Nitrobenzene-d5 | | | **0.828** | 0.8350 | | 99.2 | 16.7 | 118 | 12/24/2015 |
| Surr: p-Terphenyl-d14 | | | **0.697** | 0.8350 | | 83.4 | 50.1 | 111 | 12/24/2015 |

**Batch 115187** **SampType: LCSG** Units **mg/Kg**

SampID: LCSDRO-115187

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 12.0 | | **22.3** | 33.40 | 0 | 66.7 | 53.7 | 103 | 12/24/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.592** | 0.8350 | | 70.9 | 42.6 | 97.2 | 12/24/2015 |
| Surr: Nitrobenzene-d5 | | | **0.553** | 0.8350 | | 66.2 | 16.7 | 118 | 12/24/2015 |
| Surr: p-Terphenyl-d14 | | | **0.683** | 0.8350 | | 81.8 | 50.1 | 111 | 12/24/2015 |

**Batch 115187** **SampType: MS** Units **mg/Kg-dry**

SampID: 15121579-021AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 14.8 | | **25.2** | 41.28 | 0 | 61.1 | 34.5 | 160 | 12/24/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.396** | 1.032 | | 38.4 | 12 | 133 | 12/24/2015 |
| Surr: Nitrobenzene-d5 | | | **0.499** | 1.032 | | 48.3 | 30.9 | 115 | 12/24/2015 |
| Surr: p-Terphenyl-d14 | | | **0.793** | 1.032 | | 76.9 | 31.5 | 137 | 12/24/2015 |

**Batch 115187** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **30**

SampID: 15121579-021AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 14.7 | | **26.8** | 40.96 | 0 | 65.3 | 25.21 | 5.96 | 12/24/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.395** | 1.024 | | 38.6 | | | 12/24/2015 |
| Surr: Nitrobenzene-d5 | | | **0.532** | 1.024 | | 52.0 | | | 12/24/2015 |
| Surr: p-Terphenyl-d14 | | | **0.807** | 1.024 | | 78.8 | | | 12/24/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115187** **SampType: MS** Units **mg/Kg-dry**

SampID: 15121619-001AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 18.4 | | **701** | 905.5 | 0 | 77.4 | 36 | 110 | 12/24/2015 |
| Anthracene | 18.4 | | **731** | 905.5 | 0 | 80.7 | 53.3 | 115 | 12/24/2015 |
| Benzo(a)anthracene | 18.4 | | **688** | 905.5 | 0 | 76.0 | 62.3 | 110 | 12/24/2015 |
| Benzo(a)pyrene | 18.4 | | **732** | 905.5 | 0 | 80.9 | 58.2 | 109 | 12/24/2015 |
| Benzo(b)fluoranthene | 18.4 | | **742** | 905.5 | 0 | 82.0 | 51.8 | 107 | 12/24/2015 |
| Benzo(k)fluoranthene | 18.4 | | **758** | 905.5 | 0 | 83.7 | 63.1 | 129 | 12/24/2015 |
| Chrysene | 18.4 | | **738** | 905.5 | 0 | 81.5 | 58.4 | 115 | 12/24/2015 |
| Dibenzo(a,h)anthracene | 18.4 | | **745** | 905.5 | 0 | 82.3 | 54.9 | 120 | 12/24/2015 |
| Fluoranthene | 18.4 | | **740** | 905.5 | 0 | 81.7 | 61.6 | 113 | 12/24/2015 |
| Fluorene | 18.4 | | **724** | 905.5 | 0 | 80.0 | 52.2 | 116 | 12/24/2015 |
| Pyrene | 18.4 | | **755** | 905.5 | 0 | 83.4 | 60.7 | 115 | 12/24/2015 |
| Surr: 2-Fluorobiphenyl | | | **304** | 452.7 | | 67.1 | 34.1 | 116 | 12/24/2015 |
| Surr: Nitrobenzene-d5 | | | **375** | 452.7 | | 82.8 | 34.1 | 101 | 12/24/2015 |
| Surr: p-Terphenyl-d14 | | | **384** | 452.7 | | 84.8 | 41.7 | 124 | 12/24/2015 |

**Batch 115187** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **40**

SampID: 15121619-001AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 18.2 | | **772** | 893.0 | 0 | 86.5 | 700.9 | 9.68 | 12/24/2015 |
| Anthracene | 18.2 | | **768** | 893.0 | 0 | 86.0 | 730.5 | 5.04 | 12/24/2015 |
| Benzo(a)anthracene | 18.2 | | **731** | 893.0 | 0 | 81.8 | 688.2 | 6.00 | 12/24/2015 |
| Benzo(a)pyrene | 18.2 | | **790** | 893.0 | 0 | 88.4 | 732.2 | 7.58 | 12/24/2015 |
| Benzo(b)fluoranthene | 18.2 | | **805** | 893.0 | 0 | 90.2 | 742.5 | 8.10 | 12/24/2015 |
| Benzo(k)fluoranthene | 18.2 | | **780** | 893.0 | 0 | 87.3 | 758.2 | 2.77 | 12/24/2015 |
| Chrysene | 18.2 | | **780** | 893.0 | 0 | 87.4 | 737.8 | 5.62 | 12/24/2015 |
| Dibenzo(a,h)anthracene | 18.2 | | **781** | 893.0 | 0 | 87.5 | 745.3 | 4.71 | 12/24/2015 |
| Fluoranthene | 18.2 | | **794** | 893.0 | 0 | 88.9 | 739.7 | 7.07 | 12/24/2015 |
| Fluorene | 18.2 | | **773** | 893.0 | 0 | 86.6 | 724.2 | 6.55 | 12/24/2015 |
| Pyrene | 18.2 | | **811** | 893.0 | 0 | 90.8 | 754.9 | 7.12 | 12/24/2015 |
| Surr: 2-Fluorobiphenyl | | | **316** | 446.5 | | 70.7 | | | 12/24/2015 |
| Surr: Nitrobenzene-d5 | | | **395** | 446.5 | | 88.5 | | | 12/24/2015 |
| Surr: p-Terphenyl-d14 | | | **404** | 446.5 | | 90.4 | | | 12/24/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115257** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Chloroethyl vinyl ether | 10.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/28/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/28/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/28/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/28/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Butyl acetate | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115257** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Chloromethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/28/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/28/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl acetate | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Methylene chloride | 5.0 | J | **1.5** | | | | | | 12/28/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/28/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/28/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/28/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/28/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/28/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/28/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115257** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.4** | 50.00 | | 100.9 | 72.2 | 131 | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **52.1** | 50.00 | | 104.1 | 82.1 | 116 | 12/28/2015 |
| Surr: Toluene-d8 | | | **52.6** | 50.00 | | 105.2 | 86 | 116 | 12/28/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121579

**Client Project:** NGA 2015-0461.21

**Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115257** **SampType:** **LCS** Units **µg/L**

SampID: LCS-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 83.1 | 114 | 12/28/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 78.5 | 119 | 12/28/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **47.6** | 50.00 | 0 | 95.2 | 67.4 | 120 | 12/28/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 75.4 | 121 | 12/28/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **47.8** | 50.00 | 0 | 95.7 | 81.1 | 111 | 12/28/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **116** | 125.0 | 0 | 92.8 | 55.4 | 131 | 12/28/2015 |
| 1,1-Dichloroethane | 5.0 | | **46.7** | 50.00 | 0 | 93.4 | 80.1 | 116 | 12/28/2015 |
| 1,1-Dichloroethene | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 73.1 | 121 | 12/28/2015 |
| 1,1-Dichloropropene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 82.2 | 114 | 12/28/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 81.7 | 130 | 12/28/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **47.8** | 50.00 | 0 | 95.7 | 67.8 | 118 | 12/28/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 82.1 | 127 | 12/28/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **57.0** | 50.00 | 0 | 114.1 | 72.3 | 141 | 12/28/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **55.2** | 50.00 | 0 | 110.4 | 79.7 | 123 | 12/28/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.3** | 50.00 | 0 | 94.6 | 62.1 | 123 | 12/28/2015 |
| 1,2-Dibromoethane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 82.4 | 112 | 12/28/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 82.7 | 119 | 12/28/2015 |
| 1,2-Dichloroethane | 5.0 | | **46.6** | 50.00 | 0 | 93.1 | 72.8 | 120 | 12/28/2015 |
| 1,2-Dichloropropane | 5.0 | | **46.3** | 50.00 | 0 | 92.6 | 80 | 116 | 12/28/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 81.5 | 125 | 12/28/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 82 | 124 | 12/28/2015 |
| 1,3-Dichloropropane | 5.0 | | **48.4** | 50.00 | 0 | 96.9 | 79.8 | 113 | 12/28/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 81.1 | 124 | 12/28/2015 |
| 1-Chlorobutane | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 77.2 | 113 | 12/28/2015 |
| 2,2-Dichloropropane | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 76.6 | 121 | 12/28/2015 |
| 2-Butanone | 50.0 | | **125** | 125.0 | 0 | 99.7 | 62.8 | 131 | 12/28/2015 |
| 2-Chloroethyl vinyl ether | 10.0 | | **46.9** | 50.00 | 0 | 93.9 | 10 | 200 | 12/28/2015 |
| 2-Chlorotoluene | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 78.8 | 121 | 12/28/2015 |
| 2-Hexanone | 50.0 | | **130** | 125.0 | 0 | 103.7 | 63.1 | 125 | 12/28/2015 |
| 2-Nitropropane | 50.0 | | **509** | 500.0 | 0 | 101.7 | 61.2 | 129 | 12/28/2015 |
| 4-Chlorotoluene | 5.0 | | **54.9** | 50.00 | 0 | 109.9 | 77.6 | 124 | 12/28/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **119** | 125.0 | 0 | 95.1 | 60.6 | 126 | 12/28/2015 |
| Acetone | 50.0 | | **144** | 125.0 | 0 | 115.3 | 39.5 | 159 | 12/28/2015 |
| Acetonitrile | 100 | | **474** | 500.0 | 0 | 94.9 | 64.8 | 123 | 12/28/2015 |
| Acrolein | 100 | | **367** | 500.0 | 0 | 73.4 | 1 | 167 | 12/28/2015 |
| Acrylonitrile | 10.0 | | **43.8** | 50.00 | 0 | 87.6 | 67 | 124 | 12/28/2015 |
| Allyl chloride | 5.0 | | **46.1** | 50.00 | 0 | 92.1 | 58.5 | 129 | 12/28/2015 |
| Benzene | 1.0 | | **47.8** | 50.00 | 0 | 95.7 | 80.8 | 117 | 12/28/2015 |
| Bromobenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 79.6 | 117 | 12/28/2015 |
| Bromochloromethane | 5.0 | | **45.6** | 50.00 | 0 | 91.2 | 70.7 | 121 | 12/28/2015 |
| Bromodichloromethane | 5.0 | | **46.9** | 50.00 | 0 | 93.8 | 80.7 | 121 | 12/28/2015 |
| Bromoform | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 79.8 | 118 | 12/28/2015 |
| Bromomethane | 10.0 | | **46.0** | 50.00 | 0 | 92.1 | 1 | 175 | 12/28/2015 |
| Butyl acetate | 10.0 | | **45.9** | 50.00 | 0 | 91.8 | 1 | 200 | 12/28/2015 |
| Carbon disulfide | 5.0 | | **47.5** | 50.00 | 0 | 95.1 | 62.8 | 123 | 12/28/2015 |
| Carbon tetrachloride | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 77.6 | 123 | 12/28/2015 |
| Chlorobenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 85.6 | 116 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115257** **SampType:** **LCS** Units **µg/L**

SampID: LCS-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroethane | 10.0 | | **46.7** | 50.00 | 0 | 93.4 | 60.2 | 125 | 12/28/2015 |
| Chloroform | 5.0 | | **47.0** | 50.00 | 0 | 93.9 | 77.9 | 116 | 12/28/2015 |
| Chloromethane | 10.0 | | **42.4** | 50.00 | 0 | 84.8 | 29.9 | 157 | 12/28/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 80.1 | 116 | 12/28/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **47.6** | 50.00 | 0 | 95.2 | 80.5 | 121 | 12/28/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 1 | 200 | 12/28/2015 |
| Cyclohexanone | 100 | | **473** | 500.0 | 0 | 94.6 | 45.4 | 128 | 12/28/2015 |
| Dibromochloromethane | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 84.3 | 116 | 12/28/2015 |
| Dibromomethane | 5.0 | | **45.6** | 50.00 | 0 | 91.1 | 76.6 | 115 | 12/28/2015 |
| Dichlorodifluoromethane | 10.0 | | **43.6** | 50.00 | 0 | 87.2 | 1 | 200 | 12/28/2015 |
| Diisopropyl ether | 5.0 | | **43.6** | 50.00 | 0 | 87.1 | 73.6 | 119 | 12/28/2015 |
| Ethyl acetate | 50.0 | J | **45** | 50.00 | 0 | 90.1 | 1 | 200 | 12/28/2015 |
| Ethyl ether | 5.0 | | **43.3** | 50.00 | 0 | 86.6 | 73.4 | 116 | 12/28/2015 |
| Ethyl methacrylate | 5.0 | | **49.2** | 50.00 | 0 | 98.3 | 76.2 | 120 | 12/28/2015 |
| Ethylbenzene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 84.8 | 116 | 12/28/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **43.8** | 50.00 | 0 | 87.5 | 73.8 | 119 | 12/28/2015 |
| Hexachlorobutadiene | 5.0 | | **56.3** | 50.00 | 0 | 112.6 | 74 | 135 | 12/28/2015 |
| Hexachloroethane | 5.0 | | **52.8** | 50.00 | 0 | 105.7 | 76.4 | 121 | 12/28/2015 |
| Iodomethane | 10.0 | | **49.3** | 50.00 | 0 | 98.6 | 38.7 | 161 | 12/28/2015 |
| Isopropylbenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 85 | 125 | 12/28/2015 |
| m,p-Xylenes | 5.0 | | **107** | 100.0 | 0 | 107.1 | 85.3 | 120 | 12/28/2015 |
| Methacrylonitrile | 50.0 | J | **45** | 50.00 | 0 | 89.3 | 65.7 | 120 | 12/28/2015 |
| Methyl Methacrylate | 5.0 | | **46.2** | 50.00 | 0 | 92.3 | 69.1 | 114 | 12/28/2015 |
| Methyl tert-butyl ether | 2.0 | | **43.3** | 50.00 | 0 | 86.6 | 66.6 | 125 | 12/28/2015 |
| Methylacrylate | 10.0 | | **47.4** | 50.00 | 0 | 94.9 | 69.7 | 121 | 12/28/2015 |
| Methylene chloride | 5.0 | | **48.0** | 50.00 | 0 | 95.9 | 73.4 | 115 | 12/28/2015 |
| Naphthalene | 10.0 | | **49.7** | 50.00 | 0 | 99.4 | 70.1 | 134 | 12/28/2015 |
| n-Butylbenzene | 5.0 | | **57.0** | 50.00 | 0 | 114.1 | 78.4 | 138 | 12/28/2015 |
| n-Heptane | 20.0 | | **52.1** | 50.00 | 0 | 104.3 | 74.3 | 125 | 12/28/2015 |
| n-Hexane | 20.0 | | **53.1** | 50.00 | 0 | 106.3 | 66.3 | 129 | 12/28/2015 |
| Nitrobenzene | 100 | | **555** | 500.0 | 0 | 111.0 | 20.1 | 165 | 12/28/2015 |
| n-Propylbenzene | 5.0 | | **55.4** | 50.00 | 0 | 110.7 | 79.1 | 125 | 12/28/2015 |
| o-Xylene | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 81.9 | 118 | 12/28/2015 |
| Pentachloroethane | 5.0 | | **56.3** | 50.00 | 0 | 112.7 | 72.7 | 123 | 12/28/2015 |
| p-Isopropyltoluene | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 82.7 | 129 | 12/28/2015 |
| Propionitrile | 50.0 | | **462** | 500.0 | 0 | 92.3 | 64.3 | 121 | 12/28/2015 |
| sec-Butylbenzene | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 81.3 | 125 | 12/28/2015 |
| Styrene | 5.0 | | **53.2** | 50.00 | 0 | 106.3 | 88.2 | 122 | 12/28/2015 |
| tert-Amyl methyl ether | 5.0 | | **43.8** | 50.00 | 0 | 87.5 | 74.5 | 120 | 12/28/2015 |
| tert-Butyl alcohol | 50.0 | | **223** | 250.0 | 0 | 89.2 | 51.3 | 129 | 12/28/2015 |
| tert-Butylbenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.3 | 74.8 | 125 | 12/28/2015 |
| Tetrachloroethene | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 84.2 | 122 | 12/28/2015 |
| Tetrahydrofuran | 50.0 | J | **44** | 50.00 | 0 | 87.4 | 61 | 118 | 12/28/2015 |
| Toluene | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 81.3 | 113 | 12/28/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 78.2 | 118 | 12/28/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **51.6** | 50.00 | 0 | 103.1 | 81.7 | 124 | 12/28/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 63.9 | 117 | 12/28/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121579

**Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115257** **SampType:** **LCS** Units **µg/L**

SampID: LCS-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 81 | 123 | 12/28/2015 |
| Trichlorofluoromethane | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 66.8 | 131 | 12/28/2015 |
| Vinyl acetate | 50.0 | J | **47** | 50.00 | 0 | 93.3 | 64.3 | 122 | 12/28/2015 |
| Vinyl chloride | 2.0 | | **47.5** | 50.00 | 0 | 95.1 | 45.2 | 140 | 12/28/2015 |
| Xylenes, Total | 5.0 | | **159** | 150.0 | 0 | 106.1 | 85.3 | 118 | 12/28/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **96.0** | 100.0 | 0 | 96.0 | 80.1 | 116 | 12/28/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **99.2** | 100.0 | 0 | 99.2 | 80.5 | 121 | 12/28/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **98.2** | 100.0 | 0 | 98.2 | 63.9 | 117 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.6** | 50.00 | | 99.1 | 72.2 | 131 | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.4** | 50.00 | | 100.8 | 82.1 | 116 | 12/28/2015 |
| Surr: Toluene-d8 | | | **50.4** | 50.00 | | 100.8 | 86 | 116 | 12/28/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121579
**Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115257** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 50.29 | 3.99 | 12/28/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 48.52 | 4.18 | 12/28/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **52.6** | 50.00 | 0 | 105.1 | 47.58 | 9.97 | 12/28/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 50.62 | 3.09 | 12/28/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 47.85 | 8.58 | 12/28/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **131** | 125.0 | 0 | 104.9 | 116.0 | 12.27 | 12/28/2015 |
| 1,1-Dichloroethane | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 46.72 | 3.16 | 12/28/2015 |
| 1,1-Dichloroethene | 5.0 | | **48.4** | 50.00 | 0 | 96.9 | 48.22 | 0.43 | 12/28/2015 |
| 1,1-Dichloropropene | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 49.11 | 2.57 | 12/28/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **57.4** | 50.00 | 0 | 114.7 | 55.28 | 3.69 | 12/28/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **53.4** | 50.00 | 0 | 106.7 | 47.83 | 10.93 | 12/28/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **52.6** | 50.00 | 0 | 105.1 | 49.78 | 5.43 | 12/28/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **58.6** | 50.00 | 0 | 117.3 | 57.05 | 2.75 | 12/28/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **57.8** | 50.00 | 0 | 115.6 | 55.21 | 4.58 | 12/28/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 47.30 | 9.49 | 12/28/2015 |
| 1,2-Dibromoethane | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 47.10 | 7.72 | 12/28/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 52.89 | 3.77 | 12/28/2015 |
| 1,2-Dichloroethane | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 46.55 | 4.43 | 12/28/2015 |
| 1,2-Dichloropropane | 5.0 | | **48.2** | 50.00 | 0 | 96.5 | 46.30 | 4.12 | 12/28/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.5 | 52.51 | 5.99 | 12/28/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.7 | 54.38 | 2.63 | 12/28/2015 |
| 1,3-Dichloropropane | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 48.43 | 7.86 | 12/28/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 54.38 | 3.13 | 12/28/2015 |
| 1-Chlorobutane | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 48.19 | 2.64 | 12/28/2015 |
| 2,2-Dichloropropane | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 49.49 | 3.30 | 12/28/2015 |
| 2-Butanone | 50.0 | | **139** | 125.0 | 0 | 110.9 | 124.6 | 10.68 | 12/28/2015 |
| 2-Chloroethyl vinyl ether | 10.0 | | **50.2** | 50.00 | 0 | 100.3 | 46.93 | 6.63 | 12/28/2015 |
| 2-Chlorotoluene | 5.0 | | **56.9** | 50.00 | 0 | 113.8 | 54.08 | 5.08 | 12/28/2015 |
| 2-Hexanone | 50.0 | | **144** | 125.0 | 0 | 114.9 | 129.6 | 10.28 | 12/28/2015 |
| 2-Nitropropane | 50.0 | | **554** | 500.0 | 0 | 110.8 | 508.6 | 8.57 | 12/28/2015 |
| 4-Chlorotoluene | 5.0 | | **57.5** | 50.00 | 0 | 115.0 | 54.94 | 4.57 | 12/28/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **134** | 125.0 | 0 | 106.9 | 118.8 | 11.72 | 12/28/2015 |
| Acetone | 50.0 | | **156** | 125.0 | 0 | 124.5 | 144.1 | 7.67 | 12/28/2015 |
| Acetonitrile | 100 | | **488** | 500.0 | 0 | 97.6 | 474.4 | 2.80 | 12/28/2015 |
| Acrolein | 100 | | **411** | 500.0 | 0 | 82.3 | 366.9 | 11.43 | 12/28/2015 |
| Acrylonitrile | 10.0 | | **46.8** | 50.00 | 0 | 93.5 | 43.80 | 6.54 | 12/28/2015 |
| Allyl chloride | 5.0 | | **45.5** | 50.00 | 0 | 91.1 | 46.07 | 1.16 | 12/28/2015 |
| Benzene | 1.0 | | **49.7** | 50.00 | 0 | 99.3 | 47.83 | 3.75 | 12/28/2015 |
| Bromobenzene | 5.0 | | **53.5** | 50.00 | 0 | 107.1 | 49.69 | 7.46 | 12/28/2015 |
| Bromochloromethane | 5.0 | | **46.4** | 50.00 | 0 | 92.9 | 45.59 | 1.83 | 12/28/2015 |
| Bromodichloromethane | 5.0 | | **49.2** | 50.00 | 0 | 98.3 | 46.90 | 4.69 | 12/28/2015 |
| Bromoform | 5.0 | | **57.2** | 50.00 | 0 | 114.5 | 53.50 | 6.75 | 12/28/2015 |
| Bromomethane | 10.0 | | **45.5** | 50.00 | 0 | 91.1 | 46.04 | 1.09 | 12/28/2015 |
| Butyl acetate | 10.0 | | **50.2** | 50.00 | 0 | 100.4 | 45.92 | 8.87 | 12/28/2015 |
| Carbon disulfide | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 47.53 | 0.02 | 12/28/2015 |
| Carbon tetrachloride | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 50.37 | 3.84 | 12/28/2015 |
| Chlorobenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 52.18 | 3.82 | 12/28/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121579
**Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115257 **SampType:** LCSD Units **µg/L** RPD Limit **40**

SampID: LCSD-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroethane | 10.0 | | **46.7** | 50.00 | 0 | 93.4 | 46.69 | 0.02 | 12/28/2015 |
| Chloroform | 5.0 | | **49.2** | 50.00 | 0 | 98.3 | 46.96 | 4.60 | 12/28/2015 |
| Chloromethane | 10.0 | | **41.2** | 50.00 | 0 | 82.4 | 42.41 | 2.89 | 12/28/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 47.51 | 2.47 | 12/28/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **49.3** | 50.00 | 0 | 98.7 | 47.59 | 3.59 | 12/28/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 48.66 | 6.44 | 12/28/2015 |
| Cyclohexanone | 100 | | **464** | 500.0 | 0 | 92.8 | 473.0 | 1.89 | 12/28/2015 |
| Dibromochloromethane | 5.0 | | **54.6** | 50.00 | 0 | 109.3 | 51.20 | 6.52 | 12/28/2015 |
| Dibromomethane | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 45.56 | 6.00 | 12/28/2015 |
| Dichlorodifluoromethane | 10.0 | | **41.9** | 50.00 | 0 | 83.8 | 43.60 | 3.98 | 12/28/2015 |
| Diisopropyl ether | 5.0 | | **45.9** | 50.00 | 0 | 91.8 | 43.57 | 5.25 | 12/28/2015 |
| Ethyl acetate | 50.0 | | **50.2** | 50.00 | 0 | 100.4 | 45.04 | 10.86 | 12/28/2015 |
| Ethyl ether | 5.0 | | **46.3** | 50.00 | 0 | 92.6 | 43.32 | 6.63 | 12/28/2015 |
| Ethyl methacrylate | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 49.17 | 9.10 | 12/28/2015 |
| Ethylbenzene | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 50.08 | 3.78 | 12/28/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **46.7** | 50.00 | 0 | 93.3 | 43.76 | 6.44 | 12/28/2015 |
| Hexachlorobutadiene | 5.0 | | **57.7** | 50.00 | 0 | 115.4 | 56.28 | 2.49 | 12/28/2015 |
| Hexachloroethane | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 52.84 | 4.89 | 12/28/2015 |
| Iodomethane | 10.0 | | **49.0** | 50.00 | 0 | 97.9 | 49.31 | 0.69 | 12/28/2015 |
| Isopropylbenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.7 | 51.21 | 2.20 | 12/28/2015 |
| m,p-Xylenes | 5.0 | | **110** | 100.0 | 0 | 109.8 | 107.1 | 2.51 | 12/28/2015 |
| Methacrylonitrile | 50.0 | J | **48** | 50.00 | 0 | 96.9 | 44.66 | 0.00 | 12/28/2015 |
| Methyl Methacrylate | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 46.17 | 6.74 | 12/28/2015 |
| Methyl tert-butyl ether | 2.0 | | **47.3** | 50.00 | 0 | 94.5 | 43.28 | 8.79 | 12/28/2015 |
| Methylacrylate | 10.0 | | **52.0** | 50.00 | 0 | 104.0 | 47.44 | 9.19 | 12/28/2015 |
| Methylene chloride | 5.0 | | **48.2** | 50.00 | 0 | 96.3 | 47.95 | 0.42 | 12/28/2015 |
| Naphthalene | 10.0 | | **54.1** | 50.00 | 0 | 108.2 | 49.70 | 8.50 | 12/28/2015 |
| n-Butylbenzene | 5.0 | | **58.2** | 50.00 | 0 | 116.5 | 57.05 | 2.05 | 12/28/2015 |
| n-Heptane | 20.0 | | **52.1** | 50.00 | 0 | 104.1 | 52.13 | 0.12 | 12/28/2015 |
| n-Hexane | 20.0 | | **53.0** | 50.00 | 0 | 105.9 | 53.13 | 0.32 | 12/28/2015 |
| Nitrobenzene | 100 | | **607** | 500.0 | 0 | 121.4 | 555.0 | 8.94 | 12/28/2015 |
| n-Propylbenzene | 5.0 | | **57.9** | 50.00 | 0 | 115.9 | 55.36 | 4.55 | 12/28/2015 |
| o-Xylene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 52.00 | 3.20 | 12/28/2015 |
| Pentachloroethane | 5.0 | | **59.1** | 50.00 | 0 | 118.1 | 56.33 | 4.75 | 12/28/2015 |
| p-Isopropyltoluene | 5.0 | | **55.2** | 50.00 | 0 | 110.5 | 53.89 | 2.47 | 12/28/2015 |
| Propionitrile | 50.0 | | **487** | 500.0 | 0 | 97.4 | 461.7 | 5.32 | 12/28/2015 |
| sec-Butylbenzene | 5.0 | | **55.5** | 50.00 | 0 | 111.1 | 52.94 | 4.78 | 12/28/2015 |
| Styrene | 5.0 | | **54.7** | 50.00 | 0 | 109.3 | 53.17 | 2.78 | 12/28/2015 |
| tert-Amyl methyl ether | 5.0 | | **47.2** | 50.00 | 0 | 94.3 | 43.76 | 7.50 | 12/28/2015 |
| tert-Butyl alcohol | 50.0 | | **245** | 250.0 | 0 | 98.0 | 223.1 | 9.36 | 12/28/2015 |
| tert-Butylbenzene | 5.0 | | **56.5** | 50.00 | 0 | 113.0 | 54.14 | 4.25 | 12/28/2015 |
| Tetrachloroethene | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 47.78 | 7.30 | 12/28/2015 |
| Tetrahydrofuran | 50.0 | J | **49** | 50.00 | 0 | 97.3 | 43.69 | 0.00 | 12/28/2015 |
| Toluene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 50.77 | 4.67 | 12/28/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 48.52 | 2.92 | 12/28/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **55.5** | 50.00 | 0 | 111.0 | 51.56 | 7.40 | 12/28/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 49.49 | 10.35 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115257** **SampType: LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 48.98 | 2.66 | 12/28/2015 |
| Trichlorofluoromethane | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 48.36 | 0.12 | 12/28/2015 |
| Vinyl acetate | 50.0 | | **51.5** | 50.00 | 0 | 103.0 | 46.63 | 9.96 | 12/28/2015 |
| Vinyl chloride | 2.0 | | **48.0** | 50.00 | 0 | 96.1 | 47.54 | 1.07 | 12/28/2015 |
| Xylenes, Total | 5.0 | | **164** | 150.0 | 0 | 109.0 | 159.1 | 2.73 | 12/28/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **98.7** | 100.0 | 0 | 98.7 | 96.03 | 2.70 | 12/28/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **105** | 100.0 | 0 | 104.8 | 99.15 | 5.59 | 12/28/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **107** | 100.0 | 0 | 106.8 | 98.15 | 8.43 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.0** | 50.00 | | 100.0 | | | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **51.1** | 50.00 | | 102.2 | | | 12/28/2015 |
| Surr: Toluene-d8 | | | **51.6** | 50.00 | | 103.2 | | | 12/28/2015 |

**Batch 115257** **SampType: LCSG** Units **µg/L**

SampID: LCSG-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1960** | 2000 | 0 | 98.1 | 70 | 130 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.2** | 50.00 | | 100.3 | 72.2 | 131 | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.7** | 50.00 | | 99.4 | 82.1 | 116 | 12/28/2015 |
| Surr: Toluene-d8 | | | **53.3** | 50.00 | | 106.6 | 86 | 116 | 12/28/2015 |

**Batch 115257** **SampType: LCSGD** Units **µg/L** RPD Limit **20**

SampID: LCSGD-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1980** | 2000 | 0 | 98.9 | 1962 | 0.83 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.4** | 50.00 | | 98.7 | | | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.4** | 50.00 | | 100.8 | | | 12/28/2015 |
| Surr: Toluene-d8 | | | **52.8** | 50.00 | | 105.7 | | | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115189** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-Y151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/23/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/23/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/23/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115189** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-Y151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/23/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/23/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/23/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/23/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/23/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/23/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/23/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/23/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/23/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/23/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/23/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121579

**Report Date:** 29-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115189** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-Y151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/23/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.1** | 50.00 | | 100.1 | 72.2 | 131 | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.6** | 50.00 | | 101.1 | 82.1 | 116 | 12/23/2015 |
| Surr: Toluene-d8 | | | **51.9** | 50.00 | | 103.8 | 86 | 116 | 12/23/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121579

**Report Date:** 29-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115189** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-Y151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **46.8** | 50.00 | 0 | 93.7 | 44.46 | 5.21 | 12/23/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **43.5** | 50.00 | 0 | 87.1 | 42.27 | 2.96 | 12/23/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.0** | 50.00 | 0 | 96.1 | 47.11 | 1.98 | 12/23/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **41.4** | 50.00 | 0 | 82.8 | 41.42 | 0.05 | 12/23/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **44.1** | 50.00 | 0 | 88.1 | 42.96 | 2.53 | 12/23/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **112** | 125.0 | 0 | 89.7 | 108.8 | 2.98 | 12/23/2015 |
| 1,1-Dichloroethane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 46.34 | 1.67 | 12/23/2015 |
| 1,1-Dichloroethene | 5.0 | | **45.0** | 50.00 | 0 | 90.0 | 44.54 | 1.07 | 12/23/2015 |
| 1,1-Dichloropropene | 5.0 | | **45.8** | 50.00 | 0 | 91.5 | 44.83 | 2.08 | 12/23/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 51.53 | 2.28 | 12/23/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **45.2** | 50.00 | 0 | 90.3 | 45.29 | 0.27 | 12/23/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.3 | 49.08 | 1.17 | 12/23/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 52.30 | 2.71 | 12/23/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 50.45 | 0.16 | 12/23/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 51.54 | 2.97 | 12/23/2015 |
| 1,2-Dibromoethane | 5.0 | | **46.4** | 50.00 | 0 | 92.7 | 44.44 | 4.23 | 12/23/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 49.89 | 0.10 | 12/23/2015 |
| 1,2-Dichloroethane | 5.0 | | **44.5** | 50.00 | 0 | 89.0 | 44.05 | 0.99 | 12/23/2015 |
| 1,2-Dichloropropane | 5.0 | | **44.8** | 50.00 | 0 | 89.7 | 43.87 | 2.21 | 12/23/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 50.58 | 1.14 | 12/23/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 50.05 | 0.91 | 12/23/2015 |
| 1,3-Dichloropropane | 5.0 | | **44.3** | 50.00 | 0 | 88.6 | 42.69 | 3.66 | 12/23/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **50.5** | 50.00 | 0 | 100.9 | 49.10 | 2.75 | 12/23/2015 |
| 1-Chlorobutane | 5.0 | | **44.6** | 50.00 | 0 | 89.3 | 43.07 | 3.60 | 12/23/2015 |
| 2,2-Dichloropropane | 5.0 | | **43.6** | 50.00 | 0 | 87.1 | 43.13 | 0.97 | 12/23/2015 |
| 2-Butanone | 50.0 | | **118** | 125.0 | 0 | 94.6 | 121.0 | 2.32 | 12/23/2015 |
| 2-Chlorotoluene | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 48.54 | 1.39 | 12/23/2015 |
| 2-Hexanone | 50.0 | | **126** | 125.0 | 0 | 100.9 | 128.9 | 2.12 | 12/23/2015 |
| 2-Nitropropane | 50.0 | | **474** | 500.0 | 0 | 94.9 | 465.6 | 1.84 | 12/23/2015 |
| 4-Chlorotoluene | 5.0 | | **47.5** | 50.00 | 0 | 94.9 | 47.77 | 0.63 | 12/23/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **120** | 125.0 | 0 | 95.9 | 115.3 | 3.95 | 12/23/2015 |
| Acetone | 50.0 | | **120** | 125.0 | 0 | 96.3 | 126.6 | 5.03 | 12/23/2015 |
| Acetonitrile | 100 | | **479** | 500.0 | 0 | 95.9 | 474.5 | 1.04 | 12/23/2015 |
| Acrolein | 100 | | **455** | 500.0 | 0 | 90.9 | 455.8 | 0.28 | 12/23/2015 |
| Acrylonitrile | 10.0 | | **46.1** | 50.00 | 0 | 92.2 | 45.43 | 1.42 | 12/23/2015 |
| Allyl chloride | 5.0 | | **45.2** | 50.00 | 0 | 90.3 | 45.83 | 1.45 | 12/23/2015 |
| Benzene | 1.0 | | **45.6** | 50.00 | 0 | 91.3 | 44.19 | 3.23 | 12/23/2015 |
| Bromobenzene | 5.0 | | **48.6** | 50.00 | 0 | 97.2 | 48.27 | 0.68 | 12/23/2015 |
| Bromochloromethane | 5.0 | | **46.0** | 50.00 | 0 | 92.0 | 45.89 | 0.24 | 12/23/2015 |
| Bromodichloromethane | 5.0 | | **43.8** | 50.00 | 0 | 87.6 | 43.04 | 1.75 | 12/23/2015 |
| Bromoform | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 47.03 | 5.38 | 12/23/2015 |
| Bromomethane | 10.0 | | **27.5** | 50.00 | 0 | 55.0 | 25.84 | 6.15 | 12/23/2015 |
| Carbon disulfide | 5.0 | | **42.4** | 50.00 | 0 | 84.9 | 42.46 | 0.02 | 12/23/2015 |
| Carbon tetrachloride | 5.0 | | **44.8** | 50.00 | 0 | 89.7 | 43.79 | 2.39 | 12/23/2015 |
| Chlorobenzene | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 46.34 | 2.30 | 12/23/2015 |
| Chloroethane | 10.0 | | **39.0** | 50.00 | 0 | 77.9 | 39.03 | 0.21 | 12/23/2015 |
| Chloroform | 5.0 | | **45.5** | 50.00 | 0 | 91.0 | 45.06 | 1.02 | 12/23/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121579
**Report Date:** 29-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115189 **SampType:** LCSD Units **µg/Kg** RPD Limit **40**

SampID: LCSD-Y151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **30.9** | 50.00 | 0 | 61.8 | 31.06 | 0.48 | 12/23/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 46.04 | 1.62 | 12/23/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **46.4** | 50.00 | 0 | 92.8 | 45.20 | 2.62 | 12/23/2015 |
| Cyclohexanone | 100 | | **460** | 500.0 | 0 | 92.1 | 463.9 | 0.75 | 12/23/2015 |
| Dibromochloromethane | 5.0 | | **46.9** | 50.00 | 0 | 93.9 | 45.04 | 4.13 | 12/23/2015 |
| Dibromomethane | 5.0 | | **46.1** | 50.00 | 0 | 92.1 | 45.58 | 1.05 | 12/23/2015 |
| Dichlorodifluoromethane | 10.0 | | **15.6** | 50.00 | 0 | 31.1 | 16.90 | 8.19 | 12/23/2015 |
| Diisopropyl ether | 5.0 | | **44.5** | 50.00 | 0 | 89.1 | 44.01 | 1.17 | 12/23/2015 |
| Ethyl ether | 5.0 | | **41.0** | 50.00 | 0 | 82.0 | 40.14 | 2.12 | 12/23/2015 |
| Ethyl methacrylate | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 48.04 | 3.26 | 12/23/2015 |
| Ethylbenzene | 5.0 | | **48.2** | 50.00 | 0 | 96.5 | 46.98 | 2.65 | 12/23/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **44.9** | 50.00 | 0 | 89.8 | 43.78 | 2.50 | 12/23/2015 |
| Hexachlorobutadiene | 5.0 | | **53.8** | 50.00 | 0 | 107.7 | 54.25 | 0.74 | 12/23/2015 |
| Hexachloroethane | 5.0 | | **52.6** | 50.00 | 0 | 105.1 | 51.82 | 1.40 | 12/23/2015 |
| Iodomethane | 10.0 | | **43.2** | 50.00 | 0 | 86.4 | 40.09 | 7.42 | 12/23/2015 |
| Isopropylbenzene | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 49.12 | 2.29 | 12/23/2015 |
| m,p-Xylenes | 5.0 | | **101** | 100.0 | 0 | 100.7 | 97.29 | 3.45 | 12/23/2015 |
| Methacrylonitrile | 50.0 | J | **39** | 50.00 | 0 | 77.2 | 37.49 | 0.00 | 12/23/2015 |
| Methyl Methacrylate | 5.0 | | **45.4** | 50.00 | 0 | 90.9 | 44.67 | 1.71 | 12/23/2015 |
| Methyl tert-butyl ether | 2.0 | | **42.4** | 50.00 | 0 | 84.8 | 41.49 | 2.17 | 12/23/2015 |
| Methylacrylate | 10.0 | | **46.0** | 50.00 | 0 | 92.1 | 44.61 | 3.18 | 12/23/2015 |
| Methylene chloride | 5.0 | | **44.5** | 50.00 | 0 | 89.1 | 43.73 | 1.84 | 12/23/2015 |
| Naphthalene | 10.0 | | **51.2** | 50.00 | 0 | 102.4 | 52.94 | 3.30 | 12/23/2015 |
| n-Butylbenzene | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 53.86 | 1.72 | 12/23/2015 |
| n-Heptane | 20.0 | | **47.8** | 50.00 | 0 | 95.6 | 47.29 | 1.09 | 12/23/2015 |
| n-Hexane | 20.0 | | **44.6** | 50.00 | 0 | 89.3 | 44.91 | 0.58 | 12/23/2015 |
| Nitrobenzene | 100 | | **488** | 500.0 | 0 | 97.7 | 502.2 | 2.78 | 12/23/2015 |
| n-Propylbenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 49.95 | 0.10 | 12/23/2015 |
| o-Xylene | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 48.50 | 2.26 | 12/23/2015 |
| Pentachloroethane | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 47.39 | 5.40 | 12/23/2015 |
| p-Isopropyltoluene | 5.0 | | **52.4** | 50.00 | 0 | 104.7 | 52.09 | 0.54 | 12/23/2015 |
| Propionitrile | 50.0 | | **478** | 500.0 | 0 | 95.6 | 464.1 | 2.91 | 12/23/2015 |
| sec-Butylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 50.00 | 0.02 | 12/23/2015 |
| Styrene | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 47.83 | 2.82 | 12/23/2015 |
| tert-Amyl methyl ether | 5.0 | | **44.9** | 50.00 | 0 | 89.8 | 43.85 | 2.41 | 12/23/2015 |
| tert-Butyl alcohol | 50.0 | | **234** | 250.0 | 0 | 93.5 | 236.1 | 0.98 | 12/23/2015 |
| tert-Butylbenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 50.33 | 0.36 | 12/23/2015 |
| Tetrachloroethene | 5.0 | | **48.6** | 50.00 | 0 | 97.2 | 48.40 | 0.45 | 12/23/2015 |
| Tetrahydrofuran | 50.0 | J | **44** | 50.00 | 0 | 87.3 | 43.59 | 0.00 | 12/23/2015 |
| Toluene | 5.0 | | **47.7** | 50.00 | 0 | 95.5 | 45.95 | 3.80 | 12/23/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **46.3** | 50.00 | 0 | 92.5 | 45.61 | 1.44 | 12/23/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **48.0** | 50.00 | 0 | 96.0 | 45.88 | 4.54 | 12/23/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 50.03 | 1.05 | 12/23/2015 |
| Trichloroethene | 5.0 | | **45.6** | 50.00 | 0 | 91.2 | 44.11 | 3.37 | 12/23/2015 |
| Trichlorofluoromethane | 5.0 | | **42.3** | 50.00 | 0 | 84.5 | 42.16 | 0.24 | 12/23/2015 |
| Vinyl acetate | 50.0 | J | **48** | 50.00 | 0 | 95.2 | 43.65 | 0.00 | 12/23/2015 |
| Vinyl chloride | 2.0 | | **37.3** | 50.00 | 0 | 74.5 | 36.75 | 1.38 | 12/23/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121579
**Report Date:** 29-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115189** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-Y151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **150** | 150.0 | 0 | 100.2 | 145.8 | 3.06 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.1** | 50.00 | | 96.2 | | | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.0** | 50.00 | | 99.9 | | | 12/23/2015 |
| Surr: Toluene-d8 | | | **51.3** | 50.00 | | 102.6 | | | 12/23/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121579

**Client Project:** NGA 2015-0461.21

**Report Date:** 29-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115189** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-Y151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **44.5** | 50.00 | 0 | 88.9 | 83.1 | 114 | 12/23/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **42.3** | 50.00 | 0 | 84.5 | 78.5 | 119 | 12/23/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 67.4 | 120 | 12/23/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **41.4** | 50.00 | 0 | 82.8 | 75.4 | 121 | 12/23/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **43.0** | 50.00 | 0 | 85.9 | 81.1 | 111 | 12/23/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **109** | 125.0 | 0 | 87.1 | 55.4 | 131 | 12/23/2015 |
| 1,1-Dichloroethane | 5.0 | | **46.3** | 50.00 | 0 | 92.7 | 80.1 | 116 | 12/23/2015 |
| 1,1-Dichloroethene | 5.0 | | **44.5** | 50.00 | 0 | 89.1 | 73.1 | 121 | 12/23/2015 |
| 1,1-Dichloropropene | 5.0 | | **44.8** | 50.00 | 0 | 89.7 | 82.2 | 114 | 12/23/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.1 | 81.7 | 130 | 12/23/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **45.3** | 50.00 | 0 | 90.6 | 67.8 | 118 | 12/23/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 82.1 | 127 | 12/23/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 72.3 | 141 | 12/23/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.9 | 79.7 | 123 | 12/23/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **51.5** | 50.00 | 0 | 103.1 | 62.1 | 123 | 12/23/2015 |
| 1,2-Dibromoethane | 5.0 | | **44.4** | 50.00 | 0 | 88.9 | 82.4 | 112 | 12/23/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 82.7 | 119 | 12/23/2015 |
| 1,2-Dichloroethane | 5.0 | | **44.0** | 50.00 | 0 | 88.1 | 72.8 | 120 | 12/23/2015 |
| 1,2-Dichloropropane | 5.0 | | **43.9** | 50.00 | 0 | 87.7 | 80 | 116 | 12/23/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 81.5 | 125 | 12/23/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 82 | 124 | 12/23/2015 |
| 1,3-Dichloropropane | 5.0 | | **42.7** | 50.00 | 0 | 85.4 | 79.8 | 113 | 12/23/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 81.1 | 124 | 12/23/2015 |
| 1-Chlorobutane | 5.0 | | **43.1** | 50.00 | 0 | 86.1 | 77.2 | 113 | 12/23/2015 |
| 2,2-Dichloropropane | 5.0 | | **43.1** | 50.00 | 0 | 86.3 | 76.6 | 121 | 12/23/2015 |
| 2-Butanone | 50.0 | | **121** | 125.0 | 0 | 96.8 | 62.8 | 131 | 12/23/2015 |
| 2-Chlorotoluene | 5.0 | | **48.5** | 50.00 | 0 | 97.1 | 78.8 | 121 | 12/23/2015 |
| 2-Hexanone | 50.0 | | **129** | 125.0 | 0 | 103.1 | 63.1 | 125 | 12/23/2015 |
| 2-Nitropropane | 50.0 | | **466** | 500.0 | 0 | 93.1 | 61.2 | 129 | 12/23/2015 |
| 4-Chlorotoluene | 5.0 | | **47.8** | 50.00 | 0 | 95.5 | 77.6 | 124 | 12/23/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **115** | 125.0 | 0 | 92.2 | 60.6 | 126 | 12/23/2015 |
| Acetone | 50.0 | | **127** | 125.0 | 0 | 101.3 | 39.5 | 159 | 12/23/2015 |
| Acetonitrile | 100 | | **474** | 500.0 | 0 | 94.9 | 64.8 | 123 | 12/23/2015 |
| Acrolein | 100 | | **456** | 500.0 | 0 | 91.2 | 1 | 167 | 12/23/2015 |
| Acrylonitrile | 10.0 | | **45.4** | 50.00 | 0 | 90.9 | 67 | 124 | 12/23/2015 |
| Allyl chloride | 5.0 | | **45.8** | 50.00 | 0 | 91.7 | 58.5 | 129 | 12/23/2015 |
| Benzene | 1.0 | | **44.2** | 50.00 | 0 | 88.4 | 80.8 | 117 | 12/23/2015 |
| Bromobenzene | 5.0 | | **48.3** | 50.00 | 0 | 96.5 | 79.6 | 117 | 12/23/2015 |
| Bromochloromethane | 5.0 | | **45.9** | 50.00 | 0 | 91.8 | 70.7 | 121 | 12/23/2015 |
| Bromodichloromethane | 5.0 | | **43.0** | 50.00 | 0 | 86.1 | 80.7 | 121 | 12/23/2015 |
| Bromoform | 5.0 | | **47.0** | 50.00 | 0 | 94.1 | 79.8 | 118 | 12/23/2015 |
| Bromomethane | 10.0 | | **25.8** | 50.00 | 0 | 51.7 | 1 | 175 | 12/23/2015 |
| Carbon disulfide | 5.0 | | **42.5** | 50.00 | 0 | 84.9 | 62.8 | 123 | 12/23/2015 |
| Carbon tetrachloride | 5.0 | | **43.8** | 50.00 | 0 | 87.6 | 77.6 | 123 | 12/23/2015 |
| Chlorobenzene | 5.0 | | **46.3** | 50.00 | 0 | 92.7 | 85.6 | 116 | 12/23/2015 |
| Chloroethane | 10.0 | | **39.0** | 50.00 | 0 | 78.1 | 60.2 | 125 | 12/23/2015 |
| Chloroform | 5.0 | | **45.1** | 50.00 | 0 | 90.1 | 77.9 | 116 | 12/23/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121579

**Client Project:** NGA 2015-0461.21

**Report Date:** 29-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115189** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-Y151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **31.1** | 50.00 | 0 | 62.1 | 29.9 | 157 | 12/23/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **46.0** | 50.00 | 0 | 92.1 | 80.1 | 116 | 12/23/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **45.2** | 50.00 | 0 | 90.4 | 80.5 | 121 | 12/23/2015 |
| Cyclohexanone | 100 | | **464** | 500.0 | 0 | 92.8 | 45.4 | 128 | 12/23/2015 |
| Dibromochloromethane | 5.0 | | **45.0** | 50.00 | 0 | 90.1 | 84.3 | 116 | 12/23/2015 |
| Dibromomethane | 5.0 | | **45.6** | 50.00 | 0 | 91.2 | 76.6 | 115 | 12/23/2015 |
| Dichlorodifluoromethane | 10.0 | | **16.9** | 50.00 | 0 | 33.8 | 1 | 200 | 12/23/2015 |
| Diisopropyl ether | 5.0 | | **44.0** | 50.00 | 0 | 88.0 | 73.6 | 119 | 12/23/2015 |
| Ethyl ether | 5.0 | | **40.1** | 50.00 | 0 | 80.3 | 73.4 | 116 | 12/23/2015 |
| Ethyl methacrylate | 5.0 | | **48.0** | 50.00 | 0 | 96.1 | 76.2 | 120 | 12/23/2015 |
| Ethylbenzene | 5.0 | | **47.0** | 50.00 | 0 | 94.0 | 84.8 | 116 | 12/23/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **43.8** | 50.00 | 0 | 87.6 | 73.8 | 119 | 12/23/2015 |
| Hexachlorobutadiene | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 74 | 135 | 12/23/2015 |
| Hexachloroethane | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 76.4 | 121 | 12/23/2015 |
| Iodomethane | 10.0 | | **40.1** | 50.00 | 0 | 80.2 | 38.7 | 161 | 12/23/2015 |
| Isopropylbenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 85 | 125 | 12/23/2015 |
| m,p-Xylenes | 5.0 | | **97.3** | 100.0 | 0 | 97.3 | 85.3 | 120 | 12/23/2015 |
| Methacrylonitrile | 50.0 | J | **38** | 50.00 | 0 | 75.0 | 65.7 | 120 | 12/23/2015 |
| Methyl Methacrylate | 5.0 | | **44.7** | 50.00 | 0 | 89.3 | 69.1 | 114 | 12/23/2015 |
| Methyl tert-butyl ether | 2.0 | | **41.5** | 50.00 | 0 | 83.0 | 66.6 | 125 | 12/23/2015 |
| Methylacrylate | 10.0 | | **44.6** | 50.00 | 0 | 89.2 | 69.7 | 121 | 12/23/2015 |
| Methylene chloride | 5.0 | | **43.7** | 50.00 | 0 | 87.5 | 73.4 | 115 | 12/23/2015 |
| Naphthalene | 10.0 | | **52.9** | 50.00 | 0 | 105.9 | 70.1 | 134 | 12/23/2015 |
| n-Butylbenzene | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 78.4 | 138 | 12/23/2015 |
| n-Heptane | 20.0 | | **47.3** | 50.00 | 0 | 94.6 | 74.3 | 125 | 12/23/2015 |
| n-Hexane | 20.0 | | **44.9** | 50.00 | 0 | 89.8 | 66.3 | 129 | 12/23/2015 |
| Nitrobenzene | 100 | | **502** | 500.0 | 0 | 100.4 | 20.1 | 165 | 12/23/2015 |
| n-Propylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 79.1 | 125 | 12/23/2015 |
| o-Xylene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 81.9 | 118 | 12/23/2015 |
| Pentachloroethane | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 72.7 | 123 | 12/23/2015 |
| p-Isopropyltoluene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 82.7 | 129 | 12/23/2015 |
| Propionitrile | 50.0 | | **464** | 500.0 | 0 | 92.8 | 64.3 | 121 | 12/23/2015 |
| sec-Butylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 81.3 | 125 | 12/23/2015 |
| Styrene | 5.0 | | **47.8** | 50.00 | 0 | 95.7 | 88.2 | 122 | 12/23/2015 |
| tert-Amyl methyl ether | 5.0 | | **43.8** | 50.00 | 0 | 87.7 | 74.5 | 120 | 12/23/2015 |
| tert-Butyl alcohol | 50.0 | | **236** | 250.0 | 0 | 94.4 | 51.3 | 129 | 12/23/2015 |
| tert-Butylbenzene | 5.0 | | **50.3** | 50.00 | 0 | 100.7 | 74.8 | 125 | 12/23/2015 |
| Tetrachloroethene | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 84.2 | 122 | 12/23/2015 |
| Tetrahydrofuran | 50.0 | J | **44** | 50.00 | 0 | 87.2 | 61 | 118 | 12/23/2015 |
| Toluene | 5.0 | | **46.0** | 50.00 | 0 | 91.9 | 81.3 | 113 | 12/23/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **45.6** | 50.00 | 0 | 91.2 | 78.2 | 118 | 12/23/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **45.9** | 50.00 | 0 | 91.8 | 81.7 | 124 | 12/23/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 63.9 | 117 | 12/23/2015 |
| Trichloroethene | 5.0 | | **44.1** | 50.00 | 0 | 88.2 | 81 | 123 | 12/23/2015 |
| Trichlorofluoromethane | 5.0 | | **42.2** | 50.00 | 0 | 84.3 | 66.8 | 131 | 12/23/2015 |
| Vinyl acetate | 50.0 | J | **44** | 50.00 | 0 | 87.3 | 64.3 | 122 | 12/23/2015 |
| Vinyl chloride | 2.0 | | **36.8** | 50.00 | 0 | 73.5 | 45.2 | 140 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115189 **SampType:** LCS Units **µg/Kg**

SampID: LCS-Y151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **146** | 150.0 | 0 | 97.2 | 85.3 | 118 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.5** | 50.00 | | 98.9 | 72.2 | 131 | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.3** | 50.00 | | 100.6 | 82.1 | 116 | 12/23/2015 |
| Surr: Toluene-d8 | | | **50.8** | 50.00 | | 101.6 | 86 | 116 | 12/23/2015 |

**Batch** 115189 **SampType:** LCSGD Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-Y151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1910** | 2000 | 0 | 95.6 | 1830 | 4.35 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.8** | 50.00 | | 95.7 | | | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.5** | 50.00 | | 101.0 | | | 12/23/2015 |
| Surr: Toluene-d8 | | | **53.1** | 50.00 | | 106.2 | | | 12/23/2015 |

**Batch** 115189 **SampType:** LCSG Units **µg/Kg**

SampID: LCSG-Y151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1830** | 2000 | 0 | 91.5 | 70 | 130 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.7** | 50.00 | | 97.3 | 72.2 | 131 | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.3** | 50.00 | | 100.6 | 82.1 | 116 | 12/23/2015 |
| Surr: Toluene-d8 | | | **52.8** | 50.00 | | 105.5 | 86 | 116 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/23/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/23/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/23/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/23/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121579
**Report Date:** 29-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/23/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/23/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/23/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/23/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/23/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/23/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/23/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/23/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/23/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/23/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/23/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121579
**Report Date:** 29-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/23/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.7** | 50.00 | | 101.5 | 72.2 | 131 | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.0** | 50.00 | | 98.0 | 82.1 | 116 | 12/23/2015 |
| Surr: Toluene-d8 | | | **48.0** | 50.00 | | 96.1 | 86 | 116 | 12/23/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121579

**Client Project:** NGA 2015-0461.21

**Report Date:** 29-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 83.1 | 114 | 12/23/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 78.5 | 119 | 12/23/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **45.0** | 50.00 | 0 | 90.1 | 67.4 | 120 | 12/23/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 75.4 | 121 | 12/23/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **46.3** | 50.00 | 0 | 92.6 | 81.1 | 111 | 12/23/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **112** | 125.0 | 0 | 89.9 | 55.4 | 131 | 12/23/2015 |
| 1,1-Dichloroethane | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 80.1 | 116 | 12/23/2015 |
| 1,1-Dichloroethene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 73.1 | 121 | 12/23/2015 |
| 1,1-Dichloropropene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 82.2 | 114 | 12/23/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 81.7 | 130 | 12/23/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **45.4** | 50.00 | 0 | 90.7 | 67.8 | 118 | 12/23/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **46.2** | 50.00 | 0 | 92.3 | 82.1 | 127 | 12/23/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 72.3 | 141 | 12/23/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 79.7 | 123 | 12/23/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **43.7** | 50.00 | 0 | 87.4 | 62.1 | 123 | 12/23/2015 |
| 1,2-Dibromoethane | 5.0 | | **44.8** | 50.00 | 0 | 89.7 | 82.4 | 112 | 12/23/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 82.7 | 119 | 12/23/2015 |
| 1,2-Dichloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.7 | 72.8 | 120 | 12/23/2015 |
| 1,2-Dichloropropane | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 80 | 116 | 12/23/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 81.5 | 125 | 12/23/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 82 | 124 | 12/23/2015 |
| 1,3-Dichloropropane | 5.0 | | **45.9** | 50.00 | 0 | 91.8 | 79.8 | 113 | 12/23/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.3 | 81.1 | 124 | 12/23/2015 |
| 1-Chlorobutane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 77.2 | 113 | 12/23/2015 |
| 2,2-Dichloropropane | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 76.6 | 121 | 12/23/2015 |
| 2-Butanone | 50.0 | | **133** | 125.0 | 0 | 106.2 | 62.8 | 131 | 12/23/2015 |
| 2-Chlorotoluene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 78.8 | 121 | 12/23/2015 |
| 2-Hexanone | 50.0 | | **127** | 125.0 | 0 | 101.3 | 63.1 | 125 | 12/23/2015 |
| 2-Nitropropane | 50.0 | | **547** | 500.0 | 0 | 109.5 | 61.2 | 129 | 12/23/2015 |
| 4-Chlorotoluene | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 77.6 | 124 | 12/23/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **114** | 125.0 | 0 | 91.6 | 60.6 | 126 | 12/23/2015 |
| Acetone | 50.0 | | **155** | 125.0 | 0 | 124.3 | 39.5 | 159 | 12/23/2015 |
| Acetonitrile | 100 | | **518** | 500.0 | 0 | 103.5 | 64.8 | 123 | 12/23/2015 |
| Acrolein | 100 | | **557** | 500.0 | 0 | 111.3 | 1 | 167 | 12/23/2015 |
| Acrylonitrile | 10.0 | | **48.1** | 50.00 | 0 | 96.2 | 67 | 124 | 12/23/2015 |
| Allyl chloride | 5.0 | | **47.9** | 50.00 | 0 | 95.7 | 58.5 | 129 | 12/23/2015 |
| Benzene | 1.0 | | **51.5** | 50.00 | 0 | 102.9 | 80.8 | 117 | 12/23/2015 |
| Bromobenzene | 5.0 | | **47.0** | 50.00 | 0 | 94.0 | 79.6 | 117 | 12/23/2015 |
| Bromochloromethane | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 70.7 | 121 | 12/23/2015 |
| Bromodichloromethane | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 80.7 | 121 | 12/23/2015 |
| Bromoform | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 79.8 | 118 | 12/23/2015 |
| Bromomethane | 10.0 | | **45.8** | 50.00 | 0 | 91.6 | 1 | 175 | 12/23/2015 |
| Carbon disulfide | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 62.8 | 123 | 12/23/2015 |
| Carbon tetrachloride | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 77.6 | 123 | 12/23/2015 |
| Chlorobenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.9 | 85.6 | 116 | 12/23/2015 |
| Chloroethane | 10.0 | | **45.6** | 50.00 | 0 | 91.2 | 60.2 | 125 | 12/23/2015 |
| Chloroform | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 77.9 | 116 | 12/23/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121579

**Client Project:** NGA 2015-0461.21

**Report Date:** 29-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **34.0** | 50.00 | 0 | 67.9 | 29.9 | 157 | 12/23/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **51.0** | 50.00 | 0 | 102.1 | 80.1 | 116 | 12/23/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **51.6** | 50.00 | 0 | 103.2 | 80.5 | 121 | 12/23/2015 |
| Cyclohexanone | 100 | | **440** | 500.0 | 0 | 88.0 | 45.4 | 128 | 12/23/2015 |
| Dibromochloromethane | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 84.3 | 116 | 12/23/2015 |
| Dibromomethane | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 76.6 | 115 | 12/23/2015 |
| Dichlorodifluoromethane | 10.0 | | **23.5** | 50.00 | 0 | 47.0 | 1 | 200 | 12/23/2015 |
| Diisopropyl ether | 5.0 | | **46.8** | 50.00 | 0 | 93.5 | 73.6 | 119 | 12/23/2015 |
| Ethyl ether | 5.0 | | **45.6** | 50.00 | 0 | 91.2 | 73.4 | 116 | 12/23/2015 |
| Ethyl methacrylate | 5.0 | | **46.7** | 50.00 | 0 | 93.3 | 76.2 | 120 | 12/23/2015 |
| Ethylbenzene | 5.0 | | **48.6** | 50.00 | 0 | 97.3 | 84.8 | 116 | 12/23/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 73.8 | 119 | 12/23/2015 |
| Hexachlorobutadiene | 5.0 | | **50.9** | 50.00 | 0 | 101.9 | 74 | 135 | 12/23/2015 |
| Hexachloroethane | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 76.4 | 121 | 12/23/2015 |
| Iodomethane | 10.0 | | **51.7** | 50.00 | 0 | 103.4 | 38.7 | 161 | 12/23/2015 |
| Isopropylbenzene | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 85 | 125 | 12/23/2015 |
| m,p-Xylenes | 5.0 | | **103** | 100.0 | 0 | 103.0 | 85.3 | 120 | 12/23/2015 |
| Methacrylonitrile | 50.0 | J | **48** | 50.00 | 0 | 95.4 | 65.7 | 120 | 12/23/2015 |
| Methyl Methacrylate | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 69.1 | 114 | 12/23/2015 |
| Methyl tert-butyl ether | 2.0 | | **46.3** | 50.00 | 0 | 92.6 | 66.6 | 125 | 12/23/2015 |
| Methylacrylate | 10.0 | | **50.1** | 50.00 | 0 | 100.2 | 69.7 | 121 | 12/23/2015 |
| Methylene chloride | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 73.4 | 115 | 12/23/2015 |
| Naphthalene | 10.0 | | **45.2** | 50.00 | 0 | 90.5 | 70.1 | 134 | 12/23/2015 |
| n-Butylbenzene | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 78.4 | 138 | 12/23/2015 |
| n-Heptane | 20.0 | | **54.5** | 50.00 | 0 | 109.1 | 74.3 | 125 | 12/23/2015 |
| n-Hexane | 20.0 | | **52.3** | 50.00 | 0 | 104.6 | 66.3 | 129 | 12/23/2015 |
| Nitrobenzene | 100 | | **422** | 500.0 | 0 | 84.4 | 20.1 | 165 | 12/23/2015 |
| n-Propylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 79.1 | 125 | 12/23/2015 |
| o-Xylene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 81.9 | 118 | 12/23/2015 |
| Pentachloroethane | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 72.7 | 123 | 12/23/2015 |
| p-Isopropyltoluene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 82.7 | 129 | 12/23/2015 |
| Propionitrile | 50.0 | | **510** | 500.0 | 0 | 102.0 | 64.3 | 121 | 12/23/2015 |
| sec-Butylbenzene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 81.3 | 125 | 12/23/2015 |
| Styrene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 88.2 | 122 | 12/23/2015 |
| tert-Amyl methyl ether | 5.0 | | **47.8** | 50.00 | 0 | 95.5 | 74.5 | 120 | 12/23/2015 |
| tert-Butyl alcohol | 50.0 | | **249** | 250.0 | 0 | 99.6 | 51.3 | 129 | 12/23/2015 |
| tert-Butylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 74.8 | 125 | 12/23/2015 |
| Tetrachloroethene | 5.0 | | **47.4** | 50.00 | 0 | 94.7 | 84.2 | 122 | 12/23/2015 |
| Tetrahydrofuran | 50.0 | J | **48** | 50.00 | 0 | 95.1 | 61 | 118 | 12/23/2015 |
| Toluene | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 81.3 | 113 | 12/23/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **51.3** | 50.00 | 0 | 102.5 | 78.2 | 118 | 12/23/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **48.5** | 50.00 | 0 | 97.0 | 81.7 | 124 | 12/23/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 63.9 | 117 | 12/23/2015 |
| Trichloroethene | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 81 | 123 | 12/23/2015 |
| Trichlorofluoromethane | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 66.8 | 131 | 12/23/2015 |
| Vinyl acetate | 50.0 | | **51.1** | 50.00 | 0 | 102.1 | 64.3 | 122 | 12/23/2015 |
| Vinyl chloride | 2.0 | | **42.2** | 50.00 | 0 | 84.3 | 45.2 | 140 | 12/23/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121579

**Report Date:** 29-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **154** | 150.0 | 0 | 102.7 | 85.3 | 118 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.0** | 50.00 | | 98.1 | 72.2 | 131 | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.3 | 82.1 | 116 | 12/23/2015 |
| Surr: Toluene-d8 | | | **47.1** | 50.00 | | 94.2 | 86 | 116 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 47.91 | 5.48 | 12/23/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **55.3** | 50.00 | 0 | 110.5 | 52.51 | 5.12 | 12/23/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 45.05 | 6.38 | 12/23/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 51.25 | 4.28 | 12/23/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 46.31 | 7.86 | 12/23/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **122** | 125.0 | 0 | 97.8 | 112.3 | 8.51 | 12/23/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 50.00 | 7.10 | 12/23/2015 |
| 1,1-Dichloroethene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 50.08 | 6.27 | 12/23/2015 |
| 1,1-Dichloropropene | 5.0 | | **55.0** | 50.00 | 0 | 110.0 | 52.47 | 4.73 | 12/23/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 49.69 | 7.25 | 12/23/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **48.3** | 50.00 | 0 | 96.6 | 45.36 | 6.26 | 12/23/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 46.17 | 4.94 | 12/23/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **55.1** | 50.00 | 0 | 110.3 | 52.13 | 5.59 | 12/23/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 51.36 | 2.67 | 12/23/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 43.70 | 8.08 | 12/23/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 44.85 | 7.16 | 12/23/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.1 | 48.75 | 5.56 | 12/23/2015 |
| 1,2-Dichloroethane | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 50.34 | 6.76 | 12/23/2015 |
| 1,2-Dichloropropane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 50.26 | 6.58 | 12/23/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 49.53 | 2.33 | 12/23/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 51.57 | 1.71 | 12/23/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 45.88 | 7.59 | 12/23/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 50.66 | 3.55 | 12/23/2015 |
| 1-Chlorobutane | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 51.61 | 4.30 | 12/23/2015 |
| 2,2-Dichloropropane | 5.0 | | **56.8** | 50.00 | 0 | 113.6 | 52.78 | 7.30 | 12/23/2015 |
| 2-Butanone | 50.0 | | **141** | 125.0 | 0 | 113.1 | 132.8 | 6.27 | 12/23/2015 |
| 2-Chlorotoluene | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 50.30 | 2.75 | 12/23/2015 |
| 2-Hexanone | 50.0 | | **129** | 125.0 | 0 | 103.1 | 126.6 | 1.79 | 12/23/2015 |
| 2-Nitropropane | 50.0 | | **611** | 500.0 | 0 | 122.2 | 547.3 | 11.01 | 12/23/2015 |
| 4-Chlorotoluene | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 51.18 | 2.89 | 12/23/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **124** | 125.0 | 0 | 99.1 | 114.5 | 7.84 | 12/23/2015 |
| Acetone | 50.0 | | **156** | 125.0 | 0 | 125.1 | 155.3 | 0.67 | 12/23/2015 |
| Acetonitrile | 100 | | **578** | 500.0 | 0 | 115.7 | 517.7 | 11.06 | 12/23/2015 |
| Acrolein | 100 | | **538** | 500.0 | 0 | 107.6 | 556.7 | 3.46 | 12/23/2015 |
| Acrylonitrile | 10.0 | | **54.0** | 50.00 | 0 | 108.0 | 48.11 | 11.54 | 12/23/2015 |
| Allyl chloride | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 47.87 | 5.78 | 12/23/2015 |
| Benzene | 1.0 | | **54.8** | 50.00 | 0 | 109.6 | 51.46 | 6.27 | 12/23/2015 |
| Bromobenzene | 5.0 | | **48.5** | 50.00 | 0 | 96.9 | 47.02 | 3.02 | 12/23/2015 |
| Bromochloromethane | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 50.24 | 7.68 | 12/23/2015 |
| Bromodichloromethane | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 50.57 | 6.95 | 12/23/2015 |
| Bromoform | 5.0 | | **55.5** | 50.00 | 0 | 110.9 | 51.18 | 8.03 | 12/23/2015 |
| Bromomethane | 10.0 | | **48.1** | 50.00 | 0 | 96.2 | 45.79 | 4.94 | 12/23/2015 |
| Carbon disulfide | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 47.48 | 4.79 | 12/23/2015 |
| Carbon tetrachloride | 5.0 | | **56.9** | 50.00 | 0 | 113.7 | 53.05 | 6.93 | 12/23/2015 |
| Chlorobenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 50.43 | 3.91 | 12/23/2015 |
| Chloroethane | 10.0 | | **48.9** | 50.00 | 0 | 97.8 | 45.60 | 6.96 | 12/23/2015 |
| Chloroform | 5.0 | | **54.1** | 50.00 | 0 | 108.3 | 50.91 | 6.13 | 12/23/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121579

**Report Date:** 29-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **36.8** | 50.00 | 0 | 73.6 | 33.97 | 8.02 | 12/23/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 51.05 | 6.06 | 12/23/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **55.7** | 50.00 | 0 | 111.3 | 51.61 | 7.55 | 12/23/2015 |
| Cyclohexanone | 100 | | **479** | 500.0 | 0 | 95.8 | 440.0 | 8.49 | 12/23/2015 |
| Dibromochloromethane | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 47.79 | 7.78 | 12/23/2015 |
| Dibromomethane | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 49.04 | 8.94 | 12/23/2015 |
| Dichlorodifluoromethane | 10.0 | | **23.8** | 50.00 | 0 | 47.7 | 23.50 | 1.44 | 12/23/2015 |
| Diisopropyl ether | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 46.77 | 7.09 | 12/23/2015 |
| Ethyl ether | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 45.58 | 7.29 | 12/23/2015 |
| Ethyl methacrylate | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 46.67 | 8.00 | 12/23/2015 |
| Ethylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 48.65 | 4.11 | 12/23/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 47.09 | 7.87 | 12/23/2015 |
| Hexachlorobutadiene | 5.0 | | **54.1** | 50.00 | 0 | 108.3 | 50.94 | 6.07 | 12/23/2015 |
| Hexachloroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 49.58 | 3.16 | 12/23/2015 |
| Iodomethane | 10.0 | | **54.6** | 50.00 | 0 | 109.1 | 51.68 | 5.40 | 12/23/2015 |
| Isopropylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 49.49 | 5.25 | 12/23/2015 |
| m,p-Xylenes | 5.0 | | **109** | 100.0 | 0 | 109.0 | 103.0 | 5.60 | 12/23/2015 |
| Methacrylonitrile | 50.0 | | **53.2** | 50.00 | 0 | 106.3 | 47.72 | 10.80 | 12/23/2015 |
| Methyl Methacrylate | 5.0 | | **54.1** | 50.00 | 0 | 108.1 | 49.42 | 8.99 | 12/23/2015 |
| Methyl tert-butyl ether | 2.0 | | **50.5** | 50.00 | 0 | 101.0 | 46.29 | 8.72 | 12/23/2015 |
| Methylacrylate | 10.0 | | **56.8** | 50.00 | 0 | 113.6 | 50.11 | 12.55 | 12/23/2015 |
| Methylene chloride | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 50.59 | 7.83 | 12/23/2015 |
| Naphthalene | 10.0 | | **49.7** | 50.00 | 0 | 99.4 | 45.25 | 9.33 | 12/23/2015 |
| n-Butylbenzene | 5.0 | | **54.7** | 50.00 | 0 | 109.3 | 53.81 | 1.57 | 12/23/2015 |
| n-Heptane | 20.0 | | **55.0** | 50.00 | 0 | 110.0 | 54.54 | 0.82 | 12/23/2015 |
| n-Hexane | 20.0 | | **53.5** | 50.00 | 0 | 107.0 | 52.30 | 2.29 | 12/23/2015 |
| Nitrobenzene | 100 | | **485** | 500.0 | 0 | 97.0 | 422.0 | 13.88 | 12/23/2015 |
| n-Propylbenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 51.44 | 2.61 | 12/23/2015 |
| o-Xylene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 51.00 | 5.73 | 12/23/2015 |
| Pentachloroethane | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 50.98 | 5.61 | 12/23/2015 |
| p-Isopropyltoluene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 50.72 | 2.09 | 12/23/2015 |
| Propionitrile | 50.0 | | **571** | 500.0 | 0 | 114.2 | 509.9 | 11.27 | 12/23/2015 |
| sec-Butylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 49.38 | 3.95 | 12/23/2015 |
| Styrene | 5.0 | | **55.1** | 50.00 | 0 | 110.3 | 51.79 | 6.25 | 12/23/2015 |
| tert-Amyl methyl ether | 5.0 | | **51.9** | 50.00 | 0 | 103.7 | 47.75 | 8.25 | 12/23/2015 |
| tert-Butyl alcohol | 50.0 | | **284** | 250.0 | 0 | 113.7 | 249.0 | 13.21 | 12/23/2015 |
| tert-Butylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 50.74 | 2.74 | 12/23/2015 |
| Tetrachloroethene | 5.0 | | **46.4** | 50.00 | 0 | 92.8 | 47.35 | 2.01 | 12/23/2015 |
| Tetrahydrofuran | 50.0 | | **54.0** | 50.00 | 0 | 108.1 | 47.55 | 12.78 | 12/23/2015 |
| Toluene | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 48.39 | 4.92 | 12/23/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 51.27 | 5.22 | 12/23/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.0** | 50.00 | 0 | 104.1 | 48.48 | 7.10 | 12/23/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 46.82 | 3.87 | 12/23/2015 |
| Trichloroethene | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 53.08 | 4.42 | 12/23/2015 |
| Trichlorofluoromethane | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 48.30 | 6.95 | 12/23/2015 |
| Vinyl acetate | 50.0 | | **58.4** | 50.00 | 0 | 116.7 | 51.07 | 13.34 | 12/23/2015 |
| Vinyl chloride | 2.0 | | **44.7** | 50.00 | 0 | 89.5 | 42.16 | 5.92 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121579

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115190** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **163** | 150.0 | 0 | 108.7 | 154.0 | 5.65 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.6** | 50.00 | | 101.1 | | | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.9** | 50.00 | | 99.8 | | | 12/23/2015 |
| Surr: Toluene-d8 | | | **47.2** | 50.00 | | 94.3 | | | 12/23/2015 |

**Batch 115190** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1840** | 2000 | 0 | 91.9 | 70 | 130 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.5** | 50.00 | | 100.9 | 72.2 | 131 | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.8** | 50.00 | | 99.6 | 82.1 | 116 | 12/23/2015 |
| Surr: Toluene-d8 | | | **48.7** | 50.00 | | 97.4 | 86 | 116 | 12/23/2015 |

**Batch 115190** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1730** | 2000 | 0 | 86.6 | 1839 | 5.99 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.7** | 50.00 | | 101.5 | | | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.5** | 50.00 | | 99.1 | | | 12/23/2015 |
| Surr: Toluene-d8 | | | **48.3** | 50.00 | | 96.6 | | | 12/23/2015 |

# Receiving Check List

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121579
**Report Date:** 29-Dec-15

**Carrier:** Nick Harvey

**Received By:** MAK

**Completed by:** M. Kaminski
**On:** 23-Dec-15
Mary Anne Kaminski

**Reviewed by:** Elizabeth A. Hurley
**On:** 23-Dec-15
Elizabeth A. Hurley

**Pages to follow:** Chain of custody 3 Extra pages included 0

| | | | | |
|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ | Temp °C 8.62 |
| Type of thermal preservation? | None ☐ | Ice ☑ | Blue Ice ☐ | Dry Ice ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | | |
| Sample containers intact? | Yes ☑ | No ☐ | | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | | |
| All samples received within holding time? | Yes ☑ | No ☐ | | |
| Reported field parameters measured: | Field ☐ | Lab ☐ | NA ☑ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | | |

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

| | | | |
|---|---|---|---|
| Water – at least one vial per sample has zero headspace? | Yes ☑ | No ☐ | No VOA vials ☐ |
| Water - TOX containers have zero headspace? | Yes ☐ | No ☐ | No TOX containers ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | NA ☐ |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes ☐ | No ☐ | NA ☑ |

**Any No responses must be detailed below or on the COC.**

Trip Blank collection date and time will be reported as the received date and time (end of trip).

# CHAIN OF CUSTODY

pg. 1 of 3 Work order # 15121579

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☑ ICE ☐ BLUE ICE ☐ NO ICE 8.42 °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**
zero headspace KF 12/23/15

**Client Comments:**
Meet MRBCA DTLs
1 equipment blank and 2 trip blanks (one per transport container) included.

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 | Courier |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15121579 001 | TB-4 | 12-22-2015 8:00 a.m. | | | | | | | | 2 | | X | | | | | | | | X | |
| 002 | TB-5 | 8:00 a.m. | | | | | | | | 2 | | X | | | | | | | | X | |
| 003 | EB-3 | 3:15 p.m. | | | | | | | | 2 | | X | | | | | | | | X | |
| 004 | SCI-30A (0-3) | 8:35 a.m. | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 005 | SCI-30B (16-20) | 8:35 a.m. | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 006 | SCI-30D (16-20) | 8:35 a.m. | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 007 | SCI-32A (0-3) | 9:20 a.m. | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 008 | SCI-32B (16-20) | 9:20 a.m. | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 009 | SCI-32A (0-3) | 10:00 a.m. | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 010 | SCI-32B (16-20) | 10:00 a.m. | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 12-22-2015 3:30 p.m. | | 12/22/15 3:30 |
| | 12/22/15 5:00 | | 12/22/15 5:00 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

KF 12/23/15

# CHAIN OF CUSTODY

pg. 2 of 3 Work order # 15121579

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**

**Client Comments:**
Meet MRBCA DTLs.

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15121579 011 | SCI-33A (0-3) | 12-22-2015 10:40am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 012 | SCI-33B (16-20) | 10:40am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 013 | SCI-34A (0-3) | 11:15am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 014 | SCI-34B (16-20) | 11:15am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 015 | SCI-34D (16-20) | 11:15am ~~12:10pm~~ TSC 12/22 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 016 | SCI-35A (0-3) | 12:10pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 017 | SCI-35B (16-20) | 12:10pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 018 | SCI-36A (0-3) | 12:45pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 019 | SCI-36B (16-20) | 12:45pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 020 | SCI-37A (0-3) | 1:30pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 12-22-2015 3:30pm | | 12/22/15 3:30 |
| | 12/22/15 5:00 | M. Kennelly | 12/22/15 5:00 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

# CHAIN OF CUSTODY

pg. 3 of 3 Work order # 15121579

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**

**Client Comments:** Meet MRBCA OTLs

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number** NGA 2015-0461.21

**Sample Collector's Name** Travis Clayton

**Results Requested** ☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

**Billing Instructions** 2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15121579 021 | SCI-37B (16-20) | 12-22-2015 1:30 pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 022 | SCI-38A (0-3) | 2:10 pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 023 | SCI-38B (16-20) | 2:10 pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 024 | SCI-39A (0-3) | 3:00 pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 025 | SCI-39B (16-20) | 3:00 pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 12-22-2015 3:32 pm | | 12/22/15 3:30 |
| | 12/22/15 5:00 | M Karkowski | 12/22/15 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

January 15, 2016

Ben Butterfield
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301
TEL: (618) 206-3028
FAX: (636) 949-8269

**RE:** NGA 2015-0461.21 **WorkOrder:** 16010531

Dear Ben Butterfield:

TEKLAB, INC received 17 samples on 1/11/2016 4:30:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

# Report Contents



**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010531
**Report Date:** 15-Jan-16

**This reporting package includes the following:**


| | |
|---|---|
| Cover Letter | 1 |
| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 4 |
| Laboratory Results | 5 |
| Quality Control Results | 56 |
| Receiving Check List | 98 |
| Chain of Custody | Appended |

# Definitions

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## Abbr Definition

| | |
|---|---|
| CCV | Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration. |
| DF | Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors. |
| DNI | Did not ignite |
| DUP | Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. |
| ICV | Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated. |
| IDPH | IL Dept. of Public Health |
| LCS | Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request). |
| LCSD | Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MBLK | Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses. |
| MDL | Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. |
| MS | Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MSD | Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MW | Molecular weight |
| ND | Not Detected at the Reporting Limit |
| NELAP | NELAP Accredited |
| PQL | Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request). |
| RL | The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL. |
| RPD | Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request). |
| SPK | The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. |
| Surr | Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. |
| TIC | Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET" |
| TNTC | Too numerous to count ( > 200 CFU ) |

## Qualifiers

| | | | |
|---|---|---|---|
| # - | Unknown hydrocarbon | B - | Analyte detected in associated Method Blank |
| E - | Value above quantitation range | H - | Holding times exceeded |
| I - | Associated internal standard was outside method criteria | J - | Analyte detected below quantitation limits |
| M - | Manual Integration used to determine area response | ND - | Not Detected at the Reporting Limit |
| R - | RPD outside accepted recovery limits | S - | Spike Recovery outside recovery limits |
| T - | TIC(Tentatively identified compound) | X - | Value exceeds Maximum Contaminant Level |

# Case Narrative

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16010531

**Report Date:** 15-Jan-16

**Cooler Receipt Temp:** 6.82 °C

## Locations and Accreditations

| | Collinsville | Springfield | Kansas City | Collinsville Air |
|---|---|---|---|---|
| Address | 5445 Horseshoe Lake Road | 3920 Pintail Dr | 8421 Nieman Road | 5445 Horseshoe Lake Road |
| | Collinsville, IL 62234-7425 | Springfield, IL 62711-9415 | Lenexa, KS 66214 | Collinsville, IL 62234-7425 |
| Phone | (618) 344-1004 | (217) 698-1004 | (913) 541-1998 | (618) 344-1004 |
| Fax | (618) 344-1005 | (217) 698-1005 | (913) 541-1998 | (618) 344-1005 |
| Email | jhriley@teklabinc.com | KKlostermann@teklabinc.com | dthompson@teklabinc.com | EHurley@teklabinc.com |

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|---|---|---|---|---|---|
| Illinois | IEPA | 100226 | NELAP | 1/31/2017 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 1/31/2016 | Collinsville |
| Louisiana | LDEQ | 166493 | NELAP | 6/30/2016 | Collinsville |
| Louisiana | LDEQ | 166578 | NELAP | 6/30/2016 | Collinsville |
| Texas | TCEQ | T104704515-12-1 | NELAP | 7/31/2016 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2016 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2017 | Collinsville |
| Kentucky | KDEP | 98006 | | 12/31/2016 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2016 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2017 | Collinsville |
| Oklahoma | ODEQ | 9978 | | 8/31/2016 | Collinsville |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010531
**Client Project:** NGA 2015-0461.21
**Report Date:** 15-Jan-16
**Lab ID:** 16010531-001
**Client Sample ID:** SCI-40A
**Matrix:** SOLID
**Collection Date:** 01/11/2016 11:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.3** | % | 1 | 01/13/2016 18:00 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **6.50** | mg/Kg-dry | 1 | 01/13/2016 9:30 | 115555 |
| Barium | NELAP | 0.23 | | **246** | mg/Kg-dry | 1 | 01/13/2016 9:30 | 115555 |
| Cadmium | NELAP | 0.18 | J | **0.14** | mg/Kg-dry | 1 | 01/13/2016 9:30 | 115555 |
| Chromium | NELAP | 0.45 | | **13.6** | mg/Kg-dry | 1 | 01/13/2016 9:30 | 115555 |
| Lead | NELAP | 1.36 | | **16.3** | mg/Kg-dry | 1 | 01/13/2016 9:30 | 115555 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 01/13/2016 9:30 | 115555 |
| Silver | NELAP | 0.45 | | **< 0.45** | mg/Kg-dry | 1 | 01/13/2016 9:30 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.015** | mg/Kg-dry | 1 | 01/12/2016 9:13 | 115538 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:03 | 115540 |
| Aroclor 1221 | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:03 | 115540 |
| Aroclor 1232 | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:03 | 115540 |
| Aroclor 1242 | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:03 | 115540 |
| Aroclor 1248 | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:03 | 115540 |
| Aroclor 1254 | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:03 | 115540 |
| Aroclor 1260 | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:03 | 115540 |
| Surr: Decachlorobiphenyl | | 5-156 | | **72.7** | %REC | 1 | 01/13/2016 15:03 | 115540 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **68.4** | %REC | 1 | 01/13/2016 15:03 | 115540 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Anthracene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Chrysene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Fluoranthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Fluorene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Pyrene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| TPH-DRO (C10 - C21) | | 14.9 | J | **8.8** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| TPH-ORO (C21 - C35) | | 14.9 | J | **15** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **59.6** | %REC | 1 | 01/12/2016 17:32 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **58.3** | %REC | 1 | 01/12/2016 17:32 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **77.8** | %REC | 1 | 01/12/2016 17:32 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,1-Dichloro-2-propanone | | 48.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-001 **Client Sample ID:** SCI-40A

**Matrix:** SOLID **Collection Date:** 01/11/2016 11:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2-Dichloroethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1-Chlorobutane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 2-Butanone | NELAP | 48.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 2-Chlorotoluene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 2-Hexanone | NELAP | 48.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 2-Nitropropane | NELAP | 48.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 4-Chlorotoluene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 48.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Acetone | NELAP | 48.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Acetonitrile | NELAP | 96.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Acrolein | NELAP | 96.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Acrylonitrile | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Allyl chloride | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Bromobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Bromochloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Bromodichloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Bromoform | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Bromomethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Carbon disulfide | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Carbon tetrachloride | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Chlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Chloroethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Chloroform | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Chloromethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Cyclohexanone | | 96.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Dibromochloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Dibromomethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Dichlorodifluoromethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Diisopropyl ether | | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-001 **Client Sample ID:** SCI-40A

**Matrix:** SOLID **Collection Date:** 01/11/2016 11:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Ethyl methacrylate | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Ethylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Ethyl-tert-butyl ether | | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Hexachlorobutadiene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Hexachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Iodomethane | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Isopropylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| m,p-Xylenes | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Methacrylonitrile | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Methyl Methacrylate | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Methylacrylate | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Methylene chloride | NELAP | 4.8 | J | **1.4** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Naphthalene | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| n-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| n-Heptane | | 19.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| n-Hexane | | 19.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Nitrobenzene | NELAP | 96.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| n-Propylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| o-Xylene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Pentachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| p-Isopropyltoluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Propionitrile | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| sec-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Styrene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| tert-Amyl methyl ether | | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| tert-Butyl alcohol | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| tert-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Tetrachloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Tetrahydrofuran | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Toluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| TPH - GRO (C6 - C10) | | 483 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Trichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Trichlorofluoromethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Vinyl acetate | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Xylenes, Total | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **98.0** | %REC | 1 | 01/12/2016 12:29 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **104.8** | %REC | 1 | 01/12/2016 12:29 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **101.1** | %REC | 1 | 01/12/2016 12:29 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-002 **Client Sample ID:** SCI-40B

**Matrix:** SOLID **Collection Date:** 01/11/2016 11:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.9** | % | 1 | 01/13/2016 18:00 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **6.78** | mg/Kg-dry | 1 | 01/13/2016 9:34 | 115555 |
| Barium | NELAP | 0.24 | | **132** | mg/Kg-dry | 1 | 01/13/2016 9:34 | 115555 |
| Cadmium | NELAP | 0.19 | | **0.30** | mg/Kg-dry | 1 | 01/13/2016 9:34 | 115555 |
| Chromium | NELAP | 0.47 | | **22.0** | mg/Kg-dry | 1 | 01/13/2016 9:34 | 115555 |
| Lead | NELAP | 1.42 | | **8.69** | mg/Kg-dry | 1 | 01/13/2016 9:34 | 115555 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/13/2016 9:34 | 115555 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/13/2016 9:34 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.024** | mg/Kg-dry | 1 | 01/12/2016 9:15 | 115538 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:20 | 115540 |
| Aroclor 1221 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:20 | 115540 |
| Aroclor 1232 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:20 | 115540 |
| Aroclor 1242 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:20 | 115540 |
| Aroclor 1248 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:20 | 115540 |
| Aroclor 1254 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:20 | 115540 |
| Aroclor 1260 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:20 | 115540 |
| Surr: Decachlorobiphenyl | | 5-156 | | **89.5** | %REC | 1 | 01/13/2016 15:20 | 115540 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **76.8** | %REC | 1 | 01/13/2016 15:20 | 115540 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Chrysene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Fluorene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Pyrene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| TPH-DRO (C10 - C21) | | 15.2 | J | **8.4** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| TPH-ORO (C21 - C35) | | 15.2 | J | **8.6** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **65.8** | %REC | 1 | 01/12/2016 18:02 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **68.9** | %REC | 1 | 01/12/2016 18:02 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **83.0** | %REC | 1 | 01/12/2016 18:02 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,1-Dichloro-2-propanone | | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-002 **Client Sample ID:** SCI-40B

**Matrix:** SOLID **Collection Date:** 01/11/2016 11:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2-Dichloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 2-Butanone | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 2-Hexanone | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 2-Nitropropane | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Acetone | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Acetonitrile | NELAP | 92.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Acrolein | NELAP | 92.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Acrylonitrile | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Bromomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Chloroethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Chloromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Cyclohexanone | | 92.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Dichlorodifluoromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-002 **Client Sample ID:** SCI-40B

**Matrix:** SOLID **Collection Date:** 01/11/2016 11:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Ethyl methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Ethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Ethyl-tert-butyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Hexachlorobutadiene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Hexachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Iodomethane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Isopropylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| m,p-Xylenes | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Methacrylonitrile | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Methylacrylate | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Methylene chloride | NELAP | 4.6 | J | **1.3** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Naphthalene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| n-Heptane | | 18.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| n-Hexane | | 18.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Nitrobenzene | NELAP | 92.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Propionitrile | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| tert-Butyl alcohol | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Tetrahydrofuran | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| TPH - GRO (C6 - C10) | | 463 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Vinyl acetate | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Xylenes, Total | NELAP | 4.6 | J | **1.3** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **93.7** | %REC | 1 | 01/12/2016 12:56 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **106.4** | %REC | 1 | 01/12/2016 12:56 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **102.4** | %REC | 1 | 01/12/2016 12:56 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010531
**Client Project:** NGA 2015-0461.21
**Report Date:** 15-Jan-16
**Lab ID:** 16010531-003
**Client Sample ID:** SCI-40D
**Matrix:** SOLID
**Collection Date:** 01/11/2016 11:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.8** | % | 1 | 01/13/2016 18:01 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **6.48** | mg/Kg-dry | 1 | 01/13/2016 9:37 | 115555 |
| Barium | NELAP | 0.23 | | **185** | mg/Kg-dry | 1 | 01/13/2016 9:37 | 115555 |
| Cadmium | NELAP | 0.19 | | **0.28** | mg/Kg-dry | 1 | 01/13/2016 9:37 | 115555 |
| Chromium | NELAP | 0.46 | | **19.8** | mg/Kg-dry | 1 | 01/13/2016 9:37 | 115555 |
| Lead | NELAP | 1.39 | | **8.81** | mg/Kg-dry | 1 | 01/13/2016 9:37 | 115555 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 01/13/2016 9:37 | 115555 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/13/2016 9:37 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.029** | mg/Kg-dry | 1 | 01/12/2016 9:18 | 115538 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:37 | 115540 |
| Aroclor 1221 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:37 | 115540 |
| Aroclor 1232 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:37 | 115540 |
| Aroclor 1242 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:37 | 115540 |
| Aroclor 1248 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:37 | 115540 |
| Aroclor 1254 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:37 | 115540 |
| Aroclor 1260 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:37 | 115540 |
| Surr: Decachlorobiphenyl | | 5-156 | | **89.2** | %REC | 1 | 01/13/2016 15:37 | 115540 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **76.2** | %REC | 1 | 01/13/2016 15:37 | 115540 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Chrysene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Fluorene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Pyrene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| TPH-DRO (C10 - C21) | | 15.0 | J | **8.4** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| TPH-ORO (C21 - C35) | | 15.0 | J | **7.6** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **64.3** | %REC | 1 | 01/12/2016 18:31 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.9** | %REC | 1 | 01/12/2016 18:31 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **78.6** | %REC | 1 | 01/12/2016 18:31 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,1-Dichloro-2-propanone | | 46.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-003 **Client Sample ID:** SCI-40D

**Matrix:** SOLID **Collection Date:** 01/11/2016 11:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2-Dichloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 2-Butanone | NELAP | 46.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 2-Hexanone | NELAP | 46.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 2-Nitropropane | NELAP | 46.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 46.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Acetone | NELAP | 46.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Acetonitrile | NELAP | 93.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Acrolein | NELAP | 93.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Acrylonitrile | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Bromomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Chloroethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Chloromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Cyclohexanone | | 93.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Dichlorodifluoromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-003 **Client Sample ID:** SCI-40D

**Matrix:** SOLID **Collection Date:** 01/11/2016 11:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Ethyl methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Ethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Ethyl-tert-butyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Hexachlorobutadiene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Hexachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Iodomethane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Isopropylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| m,p-Xylenes | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Methacrylonitrile | NELAP | 46.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Methylacrylate | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Methylene chloride | NELAP | 4.7 | J | **1.4** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Naphthalene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| n-Heptane | | 18.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| n-Hexane | | 18.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Nitrobenzene | NELAP | 93.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Propionitrile | NELAP | 46.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| tert-Butyl alcohol | NELAP | 46.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Tetrahydrofuran | NELAP | 46.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| TPH - GRO (C6 - C10) | | 466 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Vinyl acetate | NELAP | 46.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Xylenes, Total | NELAP | 4.7 | J | **1.4** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **94.0** | %REC | 1 | 01/12/2016 13:23 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **105.4** | %REC | 1 | 01/12/2016 13:23 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **103.1** | %REC | 1 | 01/12/2016 13:23 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-004 **Client Sample ID:** SCI-41A

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.5** | % | 1 | 01/13/2016 18:01 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **13.1** | mg/Kg-dry | 1 | 01/13/2016 9:41 | 115555 |
| Barium | NELAP | 0.24 | | **233** | mg/Kg-dry | 1 | 01/13/2016 9:41 | 115555 |
| Cadmium | NELAP | 0.19 | | **9.48** | mg/Kg-dry | 1 | 01/13/2016 9:41 | 115555 |
| Chromium | NELAP | 0.47 | | **31.5** | mg/Kg-dry | 1 | 01/13/2016 9:41 | 115555 |
| Lead | NELAP | 1.42 | | **784** | mg/Kg-dry | 1 | 01/13/2016 9:41 | 115555 |
| Selenium | NELAP | 3.77 | | **4.30** | mg/Kg-dry | 1 | 01/13/2016 9:41 | 115555 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/13/2016 9:41 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.307** | mg/Kg-dry | 1 | 01/12/2016 9:20 | 115538 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:01 | 115540 |
| Aroclor 1221 | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:01 | 115540 |
| Aroclor 1232 | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:01 | 115540 |
| Aroclor 1242 | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:01 | 115540 |
| Aroclor 1248 | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:01 | 115540 |
| Aroclor 1254 | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:01 | 115540 |
| Aroclor 1260 | NELAP | 45.4 | | **67.4** | µg/Kg-dry | 1 | 01/14/2016 17:01 | 115540 |
| Surr: Decachlorobiphenyl | | 5-156 | | **105.0** | %REC | 1 | 01/14/2016 17:01 | 115540 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **68.2** | %REC | 1 | 01/14/2016 17:01 | 115540 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0812 | | **0.505** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Anthracene | NELAP | 0.0812 | | **0.915** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0812 | | **2.06** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0812 | | **1.87** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0812 | | **2.56** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0812 | | **1.00** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Chrysene | NELAP | 0.0812 | | **2.01** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0812 | | **0.183** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Fluoranthene | NELAP | 0.0812 | | **4.28** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Fluorene | NELAP | 0.0812 | | **0.427** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Pyrene | NELAP | 0.0812 | | **3.65** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| TPH-DRO (C10 - C21) | | 28.7 | | **36.1** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| TPH-ORO (C21 - C35) | | 28.7 | | **133** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **60.9** | %REC | 2 | 01/12/2016 22:27 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **61.2** | %REC | 2 | 01/12/2016 22:27 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **75.2** | %REC | 2 | 01/12/2016 22:27 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,1-Dichloro-2-propanone | | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,1-Dichloroethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,1-Dichloroethene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-004 **Client Sample ID:** SCI-41A

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2,3-Trimethylbenzene | | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 133 | J | **43** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2-Dibromoethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2-Dichloroethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2-Dichloropropane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,3-Dichloropropane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1-Chlorobutane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 2,2-Dichloropropane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 2-Butanone | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 2-Chlorotoluene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 2-Hexanone | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 2-Nitropropane | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 4-Chlorotoluene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Acetone | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Acetonitrile | NELAP | 2670 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Acrolein | NELAP | 2670 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Acrylonitrile | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Allyl chloride | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Benzene | NELAP | 26.7 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Bromobenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Bromochloromethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Bromodichloromethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Bromoform | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Bromomethane | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Carbon disulfide | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Carbon tetrachloride | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Chlorobenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Chloroethane | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Chloroform | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Chloromethane | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 107 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Cyclohexanone | | 2670 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Dibromochloromethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Dibromomethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Dichlorodifluoromethane | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Diisopropyl ether | | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-004 **Client Sample ID:** SCI-41A

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Ethyl methacrylate | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Ethylbenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Ethyl-tert-butyl ether | | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Hexachlorobutadiene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Hexachloroethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Iodomethane | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Isopropylbenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| m,p-Xylenes | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Methacrylonitrile | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Methyl Methacrylate | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Methyl tert-butyl ether | NELAP | 53.3 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Methylacrylate | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Methylene chloride | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Naphthalene | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| n-Butylbenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| n-Heptane | | 533 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| n-Hexane | | 533 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Nitrobenzene | NELAP | 2670 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| n-Propylbenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| o-Xylene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Pentachloroethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| p-Isopropyltoluene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Propionitrile | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| sec-Butylbenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Styrene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| tert-Amyl methyl ether | | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| tert-Butyl alcohol | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| tert-Butylbenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Tetrachloroethene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Tetrahydrofuran | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Toluene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| TPH - GRO (C6 - C10) | | 13300 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 107 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Trichloroethene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Trichlorofluoromethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Vinyl acetate | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Vinyl chloride | NELAP | 53.3 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Xylenes, Total | NELAP | 133 | J | **38** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.8** | %REC | 12.5 | 01/13/2016 12:01 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **95.9** | %REC | 12.5 | 01/13/2016 12:01 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **97.4** | %REC | 12.5 | 01/13/2016 12:01 | 115581 |

*Elevated reporting limit due to matrix interference.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-005 **Client Sample ID:** SCI-41B

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.5** | % | 1 | 01/13/2016 18:02 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **5.83** | mg/Kg-dry | 1 | 01/13/2016 9:45 | 115555 |
| Barium | NELAP | 0.25 | | **103** | mg/Kg-dry | 1 | 01/13/2016 9:45 | 115555 |
| Cadmium | NELAP | 0.20 | | **0.21** | mg/Kg-dry | 1 | 01/13/2016 9:45 | 115555 |
| Chromium | NELAP | 0.50 | | **22.2** | mg/Kg-dry | 1 | 01/13/2016 9:45 | 115555 |
| Lead | NELAP | 1.50 | | **10.2** | mg/Kg-dry | 1 | 01/13/2016 9:45 | 115555 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/13/2016 9:45 | 115555 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/13/2016 9:45 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.027** | mg/Kg-dry | 1 | 01/12/2016 9:22 | 115538 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 47.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:11 | 115540 |
| Aroclor 1221 | NELAP | 47.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:11 | 115540 |
| Aroclor 1232 | NELAP | 47.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:11 | 115540 |
| Aroclor 1242 | NELAP | 47.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:11 | 115540 |
| Aroclor 1248 | NELAP | 47.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:11 | 115540 |
| Aroclor 1254 | NELAP | 47.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:11 | 115540 |
| Aroclor 1260 | NELAP | 47.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:11 | 115540 |
| Surr: Decachlorobiphenyl | | 5-156 | | **89.2** | %REC | 1 | 01/13/2016 16:11 | 115540 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **78.6** | %REC | 1 | 01/13/2016 16:11 | 115540 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Anthracene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Chrysene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Fluoranthene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Fluorene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Pyrene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| TPH-DRO (C10 - C21) | | 15.2 | J | **8.2** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| TPH-ORO (C21 - C35) | | 15.2 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **60.3** | %REC | 1 | 01/12/2016 19:01 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **62.4** | %REC | 1 | 01/12/2016 19:01 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **80.2** | %REC | 1 | 01/12/2016 19:01 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,1-Dichloro-2-propanone | | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-005 **Client Sample ID:** SCI-41B

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2-Dichloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 2-Butanone | NELAP | 47.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 2-Hexanone | NELAP | 47.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 2-Nitropropane | NELAP | 47.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 47.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Acetone | NELAP | 47.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Acetonitrile | NELAP | 94.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Acrolein | NELAP | 94.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Acrylonitrile | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Bromomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Chloroethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Chloromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Cyclohexanone | | 94.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Dichlorodifluoromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-005 **Client Sample ID:** SCI-41B

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Ethyl methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Ethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Ethyl-tert-butyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Hexachlorobutadiene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Hexachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Iodomethane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Isopropylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| m,p-Xylenes | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Methacrylonitrile | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Methylacrylate | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Methylene chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Naphthalene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| n-Heptane | | 18.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| n-Hexane | | 18.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Nitrobenzene | NELAP | 94.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Propionitrile | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| tert-Butyl alcohol | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Tetrahydrofuran | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| TPH - GRO (C6 - C10) | | 472 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Vinyl acetate | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.4** | %REC | 1 | 01/12/2016 14:17 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.5** | %REC | 1 | 01/12/2016 14:17 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **99.1** | %REC | 1 | 01/12/2016 14:17 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-006 **Client Sample ID:** SCI-42A

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.9** | % | 1 | 01/13/2016 18:02 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **10.5** | mg/Kg-dry | 1 | 01/13/2016 10:09 | 115555 |
| Barium | NELAP | 0.24 | | **156** | mg/Kg-dry | 1 | 01/13/2016 10:09 | 115555 |
| Cadmium | NELAP | 0.19 | J | **0.16** | mg/Kg-dry | 1 | 01/13/2016 10:09 | 115555 |
| Chromium | NELAP | 0.48 | | **20.0** | mg/Kg-dry | 1 | 01/13/2016 10:09 | 115555 |
| Lead | NELAP | 1.44 | | **14.7** | mg/Kg-dry | 1 | 01/13/2016 10:09 | 115555 |
| Selenium | NELAP | 3.85 | J | **3.6** | mg/Kg-dry | 1 | 01/13/2016 10:09 | 115555 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/13/2016 10:09 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.017** | mg/Kg-dry | 1 | 01/12/2016 9:29 | 115538 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:28 | 115540 |
| Aroclor 1221 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:28 | 115540 |
| Aroclor 1232 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:28 | 115540 |
| Aroclor 1242 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:28 | 115540 |
| Aroclor 1248 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:28 | 115540 |
| Aroclor 1254 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:28 | 115540 |
| Aroclor 1260 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:28 | 115540 |
| Surr: Decachlorobiphenyl | | 5-156 | | **84.2** | %REC | 1 | 01/13/2016 16:28 | 115540 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **64.5** | %REC | 1 | 01/13/2016 16:28 | 115540 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Chrysene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Fluorene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Pyrene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| TPH-DRO (C10 - C21) | | 14.8 | J | **7.8** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| TPH-ORO (C21 - C35) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **59.6** | %REC | 1 | 01/12/2016 19:30 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **61.3** | %REC | 1 | 01/12/2016 19:30 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **77.5** | %REC | 1 | 01/12/2016 19:30 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,1-Dichloro-2-propanone | | 44.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-006 **Client Sample ID:** SCI-42A

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2-Dichloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 2-Butanone | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 2-Hexanone | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 2-Nitropropane | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Acetone | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Acetonitrile | NELAP | 88.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Acrolein | NELAP | 88.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Acrylonitrile | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Bromomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Chloroethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Chloromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Cyclohexanone | | 88.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Dichlorodifluoromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-006 **Client Sample ID:** SCI-42A

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Ethyl methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Ethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Ethyl-tert-butyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Hexachlorobutadiene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Hexachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Iodomethane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Isopropylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| m,p-Xylenes | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Methacrylonitrile | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Methylacrylate | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Naphthalene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| n-Heptane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| n-Hexane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Nitrobenzene | NELAP | 88.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Propionitrile | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| tert-Butyl alcohol | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Tetrahydrofuran | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| TPH - GRO (C6 - C10) | | 444 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Vinyl acetate | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.3** | %REC | 1 | 01/12/2016 14:44 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.7** | %REC | 1 | 01/12/2016 14:44 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **99.0** | %REC | 1 | 01/12/2016 14:44 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-007 **Client Sample ID:** SCI-42B

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.4** | % | 1 | 01/13/2016 18:02 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **5.70** | mg/Kg-dry | 1 | 01/13/2016 10:12 | 115555 |
| Barium | NELAP | 0.24 | | **110** | mg/Kg-dry | 1 | 01/13/2016 10:12 | 115555 |
| Cadmium | NELAP | 0.19 | | **0.20** | mg/Kg-dry | 1 | 01/13/2016 10:12 | 115555 |
| Chromium | NELAP | 0.48 | | **22.1** | mg/Kg-dry | 1 | 01/13/2016 10:12 | 115555 |
| Lead | NELAP | 1.44 | | **9.50** | mg/Kg-dry | 1 | 01/13/2016 10:12 | 115555 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/13/2016 10:12 | 115555 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/13/2016 10:12 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.030** | mg/Kg-dry | 1 | 01/12/2016 9:31 | 115538 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:20 | 115540 |
| Aroclor 1221 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:20 | 115540 |
| Aroclor 1232 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:20 | 115540 |
| Aroclor 1242 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:20 | 115540 |
| Aroclor 1248 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:20 | 115540 |
| Aroclor 1254 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:20 | 115540 |
| Aroclor 1260 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:20 | 115540 |
| Surr: Decachlorobiphenyl | | 5-156 | | **90.4** | %REC | 1 | 01/13/2016 17:20 | 115540 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **73.3** | %REC | 1 | 01/13/2016 17:20 | 115540 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Anthracene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Chrysene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Fluoranthene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Fluorene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Pyrene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| TPH-DRO (C10 - C21) | | 15.2 | J | **7.8** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| TPH-ORO (C21 - C35) | | 15.2 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **55.0** | %REC | 1 | 01/12/2016 20:00 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **55.9** | %REC | 1 | 01/12/2016 20:00 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **76.2** | %REC | 1 | 01/12/2016 20:00 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,1-Dichloro-2-propanone | | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-007 **Client Sample ID:** SCI-42B

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2-Dichloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 2-Butanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 2-Hexanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 2-Nitropropane | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Acetone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Acetonitrile | NELAP | 91.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Acrolein | NELAP | 91.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Cyclohexanone | | 91.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-007 **Client Sample ID:** SCI-42B

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Ethyl methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Ethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Ethyl-tert-butyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Hexachlorobutadiene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Hexachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Iodomethane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Isopropylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| m,p-Xylenes | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Methacrylonitrile | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Methylene chloride | NELAP | 4.6 | J | **1.0** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| n-Heptane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| n-Hexane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Nitrobenzene | NELAP | 91.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Propionitrile | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| tert-Butyl alcohol | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Tetrahydrofuran | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| TPH - GRO (C6 - C10) | | 457 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Vinyl acetate | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Xylenes, Total | NELAP | 4.6 | J | **1.3** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **98.6** | %REC | 1 | 01/12/2016 15:11 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.9** | %REC | 1 | 01/12/2016 15:11 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **101.2** | %REC | 1 | 01/12/2016 15:11 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-008 **Client Sample ID:** SCI-43A

**Matrix:** SOLID **Collection Date:** 01/11/2016 13:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.9** | % | 1 | 01/13/2016 18:03 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **12.1** | mg/Kg-dry | 1 | 01/13/2016 10:16 | 115555 |
| Barium | NELAP | 0.23 | | **298** | mg/Kg-dry | 1 | 01/13/2016 10:16 | 115555 |
| Cadmium | NELAP | 0.19 | | **1.11** | mg/Kg-dry | 1 | 01/13/2016 10:16 | 115555 |
| Chromium | NELAP | 0.46 | | **21.2** | mg/Kg-dry | 1 | 01/13/2016 10:16 | 115555 |
| Lead | NELAP | 1.39 | | **973** | mg/Kg-dry | 1 | 01/13/2016 10:16 | 115555 |
| Selenium | NELAP | 3.70 | J | **2.5** | mg/Kg-dry | 1 | 01/13/2016 10:16 | 115555 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/13/2016 10:16 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.058 | | **0.958** | mg/Kg-dry | 5 | 01/12/2016 10:54 | 115538 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0811 | | **0.224** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Anthracene | NELAP | 0.0811 | | **0.505** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0811 | | **1.78** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0811 | | **1.74** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0811 | | **2.53** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0811 | | **0.729** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Chrysene | NELAP | 0.0811 | | **1.71** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0811 | | **0.173** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Fluoranthene | NELAP | 0.0811 | | **4.03** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Fluorene | NELAP | 0.0811 | | **0.175** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Pyrene | NELAP | 0.0811 | | **3.57** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| TPH-DRO (C10 - C21) | | 28.6 | J | **25** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| TPH-ORO (C21 - C35) | | 28.6 | | **67.1** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **68.8** | %REC | 2 | 01/12/2016 22:56 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **69.7** | %REC | 2 | 01/12/2016 22:56 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.9** | %REC | 2 | 01/12/2016 22:56 | 115545 |
| *Elevated reporting limit due to sample extract composition.* | | | | | | | | |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,1-Dichloro-2-propanone | | 43.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-008 **Client Sample ID:** SCI-43A

**Matrix:** SOLID **Collection Date:** 01/11/2016 13:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 2-Butanone | NELAP | 43.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 2-Hexanone | NELAP | 43.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 2-Nitropropane | NELAP | 43.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 43.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Acetone | NELAP | 43.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Acetonitrile | NELAP | 87.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Acrolein | NELAP | 87.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Acrylonitrile | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Bromomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Chloroethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Chloromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Cyclohexanone | | 87.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Dichlorodifluoromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Iodomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-008 **Client Sample ID:** SCI-43A

**Matrix:** SOLID **Collection Date:** 01/11/2016 13:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 43.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Methylacrylate | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Naphthalene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| n-Heptane | | 17.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| n-Hexane | | 17.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Nitrobenzene | NELAP | 87.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Propionitrile | NELAP | 43.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| tert-Butyl alcohol | NELAP | 43.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Tetrahydrofuran | NELAP | 43.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| TPH - GRO (C6 - C10) | | 438 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Vinyl acetate | NELAP | 43.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **102.4** | %REC | 1 | 01/13/2016 12:27 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **110.2** | %REC | 1 | 01/13/2016 12:27 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **101.9** | %REC | 1 | 01/13/2016 12:27 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-009 **Client Sample ID:** SCI-43B

**Matrix:** SOLID **Collection Date:** 01/11/2016 13:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.6** | % | 1 | 01/13/2016 18:03 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **7.20** | mg/Kg-dry | 1 | 01/13/2016 10:20 | 115555 |
| Barium | NELAP | 0.25 | | **148** | mg/Kg-dry | 1 | 01/13/2016 10:20 | 115555 |
| Cadmium | NELAP | 0.20 | | **0.29** | mg/Kg-dry | 1 | 01/13/2016 10:20 | 115555 |
| Chromium | NELAP | 0.50 | | **18.5** | mg/Kg-dry | 1 | 01/13/2016 10:20 | 115555 |
| Lead | NELAP | 1.50 | | **28.3** | mg/Kg-dry | 1 | 01/13/2016 10:20 | 115555 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/13/2016 10:20 | 115555 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/13/2016 10:20 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.128** | mg/Kg-dry | 1 | 01/12/2016 9:40 | 115538 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0845 | J | **0.080** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Anthracene | NELAP | 0.0845 | | **0.345** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0845 | | **1.99** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0845 | | **1.32** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0845 | | **1.92** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0845 | | **0.636** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Chrysene | NELAP | 0.0845 | | **1.73** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0845 | | **0.173** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Fluoranthene | NELAP | 0.0845 | | **4.14** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Fluorene | NELAP | 0.0845 | J | **0.054** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Pyrene | NELAP | 0.0845 | | **3.52** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| TPH-DRO (C10 - C21) | | 29.8 | J | **22** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| TPH-ORO (C21 - C35) | | 29.8 | | **61.5** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **57.1** | %REC | 2 | 01/13/2016 11:29 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **59.5** | %REC | 2 | 01/13/2016 11:29 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **78.2** | %REC | 2 | 01/13/2016 11:29 | 115545 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,1-Dichloro-2-propanone | | 48.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,1-Dichloropropene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-009 **Client Sample ID:** SCI-43B

**Matrix:** SOLID **Collection Date:** 01/11/2016 13:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1-Chlorobutane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 2-Butanone | NELAP | 48.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 2-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 2-Hexanone | NELAP | 48.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 2-Nitropropane | NELAP | 48.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 4-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 48.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Acetone | NELAP | 48.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Acetonitrile | NELAP | 97.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Acrolein | NELAP | 97.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Acrylonitrile | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Allyl chloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Bromobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Bromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Bromodichloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Bromoform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Bromomethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Carbon disulfide | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Carbon tetrachloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Chlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Chloroethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Chloroform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Chloromethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Cyclohexanone | | 97.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Dibromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Dibromomethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Dichlorodifluoromethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Diisopropyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Ethyl ether | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Ethyl methacrylate | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Ethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Ethyl-tert-butyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Hexachlorobutadiene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Hexachloroethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Iodomethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Isopropylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| m,p-Xylenes | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-009 **Client Sample ID:** SCI-43B

**Matrix:** SOLID **Collection Date:** 01/11/2016 13:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 48.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Methyl Methacrylate | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Methylacrylate | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Methylene chloride | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Naphthalene | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| n-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| n-Heptane | | 19.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| n-Hexane | | 19.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Nitrobenzene | NELAP | 97.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| n-Propylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| o-Xylene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Pentachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| p-Isopropyltoluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Propionitrile | NELAP | 48.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| sec-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Styrene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| tert-Amyl methyl ether | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| tert-Butyl alcohol | NELAP | 48.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| tert-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Tetrachloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Tetrahydrofuran | NELAP | 48.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Toluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| TPH - GRO (C6 - C10) | | 486 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Trichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Trichlorofluoromethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Vinyl acetate | NELAP | 48.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Xylenes, Total | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.1** | %REC | 1 | 01/12/2016 16:04 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **104.6** | %REC | 1 | 01/12/2016 16:04 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **101.2** | %REC | 1 | 01/12/2016 16:04 | 115552 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-010 **Client Sample ID:** SCI-44A

**Matrix:** SOLID **Collection Date:** 01/11/2016 14:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.9** | % | 1 | 01/13/2016 18:03 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **11.9** | mg/Kg-dry | 1 | 01/13/2016 10:24 | 115555 |
| Barium | NELAP | 0.23 | | **208** | mg/Kg-dry | 1 | 01/13/2016 10:24 | 115555 |
| Cadmium | NELAP | 0.18 | | **0.29** | mg/Kg-dry | 1 | 01/13/2016 10:24 | 115555 |
| Chromium | NELAP | 0.45 | | **21.5** | mg/Kg-dry | 1 | 01/13/2016 10:24 | 115555 |
| Lead | NELAP | 1.36 | | **70.0** | mg/Kg-dry | 1 | 01/13/2016 10:24 | 115555 |
| Selenium | NELAP | 3.64 | J | **2.0** | mg/Kg-dry | 1 | 01/13/2016 10:24 | 115555 |
| Silver | NELAP | 0.45 | | **< 0.45** | mg/Kg-dry | 1 | 01/13/2016 10:24 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.319** | mg/Kg-dry | 1 | 01/12/2016 9:43 | 115538 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0838 | | **0.0948** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Anthracene | NELAP | 0.0838 | | **0.260** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0838 | | **0.639** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0838 | | **0.567** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0838 | | **0.700** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0838 | | **0.230** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Chrysene | NELAP | 0.0838 | | **0.608** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0838 | J | **0.073** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Fluoranthene | NELAP | 0.0838 | | **1.31** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Fluorene | NELAP | 0.0838 | | **0.116** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Pyrene | NELAP | 0.0838 | | **1.25** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| TPH-DRO (C10 - C21) | | 29.6 | J | **18** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| TPH-ORO (C21 - C35) | | 29.6 | | **29.8** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **55.3** | %REC | 2 | 01/13/2016 11:59 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **60.6** | %REC | 2 | 01/13/2016 11:59 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **75.9** | %REC | 2 | 01/13/2016 11:59 | 115545 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,1-Dichloro-2-propanone | | 44.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010531
**Client Project:** NGA 2015-0461.21
**Report Date:** 15-Jan-16
**Lab ID:** 16010531-010
**Client Sample ID:** SCI-44A
**Matrix:** SOLID
**Collection Date:** 01/11/2016 14:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 2-Butanone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 2-Hexanone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 2-Nitropropane | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Acetone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Acetonitrile | NELAP | 88.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Acrolein | NELAP | 88.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Acrylonitrile | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Bromomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Chloroethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Chloromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Cyclohexanone | | 88.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Dichlorodifluoromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Iodomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-010 **Client Sample ID:** SCI-44A

**Matrix:** SOLID **Collection Date:** 01/11/2016 14:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Methylacrylate | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Naphthalene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| n-Heptane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| n-Hexane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Nitrobenzene | NELAP | 88.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Propionitrile | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| tert-Butyl alcohol | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Tetrahydrofuran | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| TPH - GRO (C6 - C10) | | 441 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Vinyl acetate | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **105.8** | %REC | 1 | 01/12/2016 16:31 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **103.0** | %REC | 1 | 01/12/2016 16:31 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **100.0** | %REC | 1 | 01/12/2016 16:31 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-011 **Client Sample ID:** SCI-44B

**Matrix:** SOLID **Collection Date:** 01/11/2016 14:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.7** | % | 1 | 01/13/2016 18:04 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **6.21** | mg/Kg-dry | 1 | 01/13/2016 10:27 | 115555 |
| Barium | NELAP | 0.25 | | **122** | mg/Kg-dry | 1 | 01/13/2016 10:27 | 115555 |
| Cadmium | NELAP | 0.20 | | **0.25** | mg/Kg-dry | 1 | 01/13/2016 10:27 | 115555 |
| Chromium | NELAP | 0.50 | | **19.3** | mg/Kg-dry | 1 | 01/13/2016 10:27 | 115555 |
| Lead | NELAP | 1.50 | | **8.86** | mg/Kg-dry | 1 | 01/13/2016 10:27 | 115555 |
| Selenium | NELAP | 4.00 | J | **2.3** | mg/Kg-dry | 1 | 01/13/2016 10:27 | 115555 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/13/2016 10:27 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.031** | mg/Kg-dry | 1 | 01/12/2016 10:29 | 115538 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Anthracene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Chrysene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Fluoranthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Fluorene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Pyrene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| TPH-DRO (C10 - C21) | | 14.9 | J | **8.1** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| TPH-ORO (C21 - C35) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **64.2** | %REC | 1 | 01/12/2016 20:29 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **67.7** | %REC | 1 | 01/12/2016 20:29 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **82.7** | %REC | 1 | 01/12/2016 20:29 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,1-Dichloro-2-propanone | | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-011 **Client Sample ID:** SCI-44B

**Matrix:** SOLID **Collection Date:** 01/11/2016 14:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 2-Butanone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 2-Hexanone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 2-Nitropropane | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Acetone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Acetonitrile | NELAP | 89.0 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Acrolein | NELAP | 89.0 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Acrylonitrile | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Bromomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Chloroethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Chloromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Cyclohexanone | | 89.0 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Dichlorodifluoromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Iodomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Methacrylonitrile | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-011 **Client Sample ID:** SCI-44B

**Matrix:** SOLID **Collection Date:** 01/11/2016 14:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Methylacrylate | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Naphthalene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| n-Heptane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| n-Hexane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Nitrobenzene | NELAP | 89.0 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Propionitrile | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| tert-Butyl alcohol | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Tetrahydrofuran | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| TPH - GRO (C6 - C10) | | 445 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Vinyl acetate | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Xylenes, Total | NELAP | 4.4 | J | **1.3** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **95.1** | %REC | 1 | 01/12/2016 16:58 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **107.1** | %REC | 1 | 01/12/2016 16:58 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **102.6** | %REC | 1 | 01/12/2016 16:58 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-012 **Client Sample ID:** SCI-45A

**Matrix:** SOLID **Collection Date:** 01/11/2016 14:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.3** | % | 1 | 01/13/2016 18:04 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **11.5** | mg/Kg-dry | 1 | 01/13/2016 10:31 | 115555 |
| Barium | NELAP | 0.25 | | **230** | mg/Kg-dry | 1 | 01/13/2016 10:31 | 115555 |
| Cadmium | NELAP | 0.20 | | **1.61** | mg/Kg-dry | 1 | 01/13/2016 10:31 | 115555 |
| Chromium | NELAP | 0.50 | | **27.9** | mg/Kg-dry | 1 | 01/13/2016 10:31 | 115555 |
| Lead | NELAP | 1.50 | | **925** | mg/Kg-dry | 1 | 01/13/2016 10:31 | 115555 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/13/2016 10:31 | 115555 |
| Silver | NELAP | 0.50 | J | **0.19** | mg/Kg-dry | 1 | 01/13/2016 10:31 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.062 | | **0.730** | mg/Kg-dry | 5 | 01/12/2016 11:24 | 115538 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0859 | | **0.164** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Anthracene | NELAP | 0.0859 | | **0.473** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0859 | | **2.77** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0859 | | **2.49** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0859 | | **3.82** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0859 | | **1.07** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Chrysene | NELAP | 0.0859 | | **2.51** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0859 | | **0.279** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Fluoranthene | NELAP | 0.0859 | | **5.24** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Fluorene | NELAP | 0.0859 | | **0.115** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Pyrene | NELAP | 0.0859 | | **4.64** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| TPH-DRO (C10 - C21) | | 30.3 | JR | **24** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| TPH-ORO (C21 - C35) | | 30.3 | | **82.4** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **58.6** | %REC | 2 | 01/13/2016 12:29 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **59.7** | %REC | 2 | 01/13/2016 12:29 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **78.2** | %REC | 2 | 01/13/2016 12:29 | 115545 |

*RPD for MS/MSD was outside of QC limit due to sample composition.*
*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,1-Dichloro-2-propanone | | 52.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,1-Dichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,1-Dichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,1-Dichloropropene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,2,3-Trimethylbenzene | | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,2-Dibromoethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-012 **Client Sample ID:** SCI-45A

**Matrix:** SOLID **Collection Date:** 01/11/2016 14:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,2-Dichloroethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,2-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,3-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1-Chlorobutane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 2,2-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 2-Butanone | NELAP | 52.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 2-Chlorotoluene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 2-Hexanone | NELAP | 52.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 2-Nitropropane | NELAP | 52.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 4-Chlorotoluene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 52.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Acetone | NELAP | 52.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Acetonitrile | NELAP | 105 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Acrolein | NELAP | 105 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Acrylonitrile | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Allyl chloride | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Bromobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Bromochloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Bromodichloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Bromoform | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Bromomethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Carbon disulfide | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Carbon tetrachloride | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Chlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Chloroethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Chloroform | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Chloromethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Cyclohexanone | | 105 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Dibromochloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Dibromomethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Dichlorodifluoromethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Diisopropyl ether | | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Ethyl ether | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Ethyl methacrylate | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Ethylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Ethyl-tert-butyl ether | | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Hexachlorobutadiene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Hexachloroethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Iodomethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Isopropylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010531
**Client Project:** NGA 2015-0461.21
**Report Date:** 15-Jan-16
**Lab ID:** 16010531-012
**Client Sample ID:** SCI-45A
**Matrix:** SOLID
**Collection Date:** 01/11/2016 14:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| m,p-Xylenes | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Methacrylonitrile | NELAP | 52.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Methyl Methacrylate | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Methyl tert-butyl ether | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Methylacrylate | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Methylene chloride | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Naphthalene | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| n-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| n-Heptane | | 20.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| n-Hexane | | 20.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Nitrobenzene | NELAP | 105 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| n-Propylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| o-Xylene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Pentachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| p-Isopropyltoluene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Propionitrile | NELAP | 52.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| sec-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Styrene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| tert-Amyl methyl ether | | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| tert-Butyl alcohol | NELAP | 52.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| tert-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Tetrachloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Tetrahydrofuran | NELAP | 52.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Toluene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| TPH - GRO (C6 - C10) | | 523 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Trichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Trichlorofluoromethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Vinyl acetate | NELAP | 52.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Vinyl chloride | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Xylenes, Total | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.6** | %REC | 1 | 01/13/2016 12:53 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **105.8** | %REC | 1 | 01/13/2016 12:53 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **101.9** | %REC | 1 | 01/13/2016 12:53 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-013 **Client Sample ID:** SCI-45B

**Matrix:** SOLID **Collection Date:** 01/11/2016 14:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **22.2** | % | 1 | 01/13/2016 18:05 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **6.57** | mg/Kg-dry | 1 | 01/13/2016 10:35 | 115555 |
| Barium | NELAP | 0.23 | | **111** | mg/Kg-dry | 1 | 01/13/2016 10:35 | 115555 |
| Cadmium | NELAP | 0.19 | | **0.25** | mg/Kg-dry | 1 | 01/13/2016 10:35 | 115555 |
| Chromium | NELAP | 0.46 | | **18.8** | mg/Kg-dry | 1 | 01/13/2016 10:35 | 115555 |
| Lead | NELAP | 1.39 | | **11.8** | mg/Kg-dry | 1 | 01/13/2016 10:35 | 115555 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 01/13/2016 10:35 | 115555 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/13/2016 10:35 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.040** | mg/Kg-dry | 1 | 01/12/2016 10:44 | 115538 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Anthracene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Chrysene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Fluoranthene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Fluorene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Pyrene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| TPH-DRO (C10 - C21) | | 15.3 | J | **9.6** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| TPH-ORO (C21 - C35) | | 15.3 | J | **10** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **61.1** | %REC | 1 | 01/12/2016 20:59 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **62.2** | %REC | 1 | 01/12/2016 20:59 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **77.0** | %REC | 1 | 01/12/2016 20:59 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,1-Dichloro-2-propanone | | 46.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-013 **Client Sample ID:** SCI-45B

**Matrix:** SOLID **Collection Date:** 01/11/2016 14:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 2-Butanone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 2-Hexanone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 2-Nitropropane | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Acetone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Acetonitrile | NELAP | 93.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Acrolein | NELAP | 93.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Acrylonitrile | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Bromomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Chloroethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Chloromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Cyclohexanone | | 93.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Dichlorodifluoromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Iodomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Methacrylonitrile | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010531
**Client Project:** NGA 2015-0461.21
**Report Date:** 15-Jan-16
**Lab ID:** 16010531-013
**Client Sample ID:** SCI-45B
**Matrix:** SOLID
**Collection Date:** 01/11/2016 14:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Methylacrylate | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Methylene chloride | NELAP | 4.7 | J | **1.4** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Naphthalene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| n-Heptane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| n-Hexane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Nitrobenzene | NELAP | 93.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Propionitrile | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| tert-Butyl alcohol | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Tetrahydrofuran | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| TPH - GRO (C6 - C10) | | 469 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Vinyl acetate | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.8** | %REC | 1 | 01/12/2016 17:52 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **103.5** | %REC | 1 | 01/12/2016 17:52 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **100.9** | %REC | 1 | 01/12/2016 17:52 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-014 **Client Sample ID:** SCI-46A

**Matrix:** SOLID **Collection Date:** 01/11/2016 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.1** | % | 1 | 01/13/2016 18:05 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **12.4** | mg/Kg-dry | 1 | 01/13/2016 11:04 | 115555 |
| Barium | NELAP | 0.23 | | **304** | mg/Kg-dry | 1 | 01/13/2016 11:04 | 115555 |
| Cadmium | NELAP | 0.19 | | **1.02** | mg/Kg-dry | 1 | 01/13/2016 11:04 | 115555 |
| Chromium | NELAP | 0.46 | | **18.9** | mg/Kg-dry | 1 | 01/13/2016 11:04 | 115555 |
| Lead | NELAP | 1.39 | | **206** | mg/Kg-dry | 1 | 01/13/2016 11:04 | 115555 |
| Selenium | NELAP | 3.70 | J | **2.6** | mg/Kg-dry | 1 | 01/13/2016 11:04 | 115555 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/13/2016 11:04 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.106** | mg/Kg-dry | 1 | 01/12/2016 10:47 | 115538 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0858 | J | **0.044** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Anthracene | NELAP | 0.0858 | | **0.0881** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0858 | | **0.534** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0858 | | **0.708** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0858 | | **1.28** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0858 | | **0.437** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Chrysene | NELAP | 0.0858 | | **0.605** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0858 | | **0.0991** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Fluoranthene | NELAP | 0.0858 | | **0.801** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Fluorene | NELAP | 0.0858 | | **ND** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Pyrene | NELAP | 0.0858 | | **0.809** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| TPH-DRO (C10 - C21) | | 30.3 | J | **20** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| TPH-ORO (C21 - C35) | | 30.3 | | **32.7** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **57.3** | %REC | 2 | 01/13/2016 13:59 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **62.7** | %REC | 2 | 01/13/2016 13:59 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **76.6** | %REC | 2 | 01/13/2016 13:59 | 115545 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,1-Dichloro-2-propanone | | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,1-Dichloroethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,1-Dichloroethene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,1-Dichloropropene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,2,3-Trimethylbenzene | | 60.5 | J | **46** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 60.5 | | **77.5** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,2-Dibromoethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-014 **Client Sample ID:** SCI-46A

**Matrix:** SOLID **Collection Date:** 01/11/2016 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,2-Dichloropropane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 60.5 | J | **37** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,3-Dichloropropane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1-Chlorobutane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 2,2-Dichloropropane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 2-Butanone | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 2-Chlorotoluene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 2-Hexanone | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 2-Nitropropane | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 4-Chlorotoluene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Acetone | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Acetonitrile | NELAP | 1210 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Acrolein | NELAP | 1210 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Acrylonitrile | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Allyl chloride | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Benzene | NELAP | 12.1 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Bromobenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Bromochloromethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Bromodichloromethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Bromoform | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Bromomethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Carbon disulfide | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Carbon tetrachloride | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Chlorobenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Chloroethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Chloroform | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Chloromethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 48.4 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Cyclohexanone | | 1210 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Dibromochloromethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Dibromomethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Dichlorodifluoromethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Diisopropyl ether | | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Ethyl ether | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Ethyl methacrylate | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Ethylbenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Ethyl-tert-butyl ether | | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Hexachlorobutadiene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Hexachloroethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Iodomethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Isopropylbenzene | NELAP | 60.5 | J | **14** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| m,p-Xylenes | NELAP | 60.5 | J | **32** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-014 **Client Sample ID:** SCI-46A

**Matrix:** SOLID **Collection Date:** 01/11/2016 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Methyl Methacrylate | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Methyl tert-butyl ether | NELAP | 24.2 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Methylacrylate | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Methylene chloride | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Naphthalene | NELAP | 121 | J | **72** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| n-Butylbenzene | NELAP | 60.5 | J | **16** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| n-Heptane | | 242 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| n-Hexane | | 242 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Nitrobenzene | NELAP | 1210 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| n-Propylbenzene | NELAP | 60.5 | J | **19** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| o-Xylene | NELAP | 60.5 | J | **36** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Pentachloroethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| p-Isopropyltoluene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Propionitrile | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| sec-Butylbenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Styrene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| tert-Amyl methyl ether | | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| tert-Butyl alcohol | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| tert-Butylbenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Tetrachloroethene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Tetrahydrofuran | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Toluene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| TPH - GRO (C6 - C10) | | 6050 | | **7000** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 48.4 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Trichloroethene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Trichlorofluoromethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Vinyl acetate | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Vinyl chloride | NELAP | 24.2 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Xylenes, Total | NELAP | 60.5 | | **67.6** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **95.6** | %REC | 12.5 | 01/14/2016 17:25 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **94.1** | %REC | 12.5 | 01/14/2016 17:25 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **102.2** | %REC | 12.5 | 01/14/2016 17:25 | 115581 |

*Elevated reporting limit due to matrix interference.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010531
**Client Project:** NGA 2015-0461.21
**Report Date:** 15-Jan-16
**Lab ID:** 16010531-015
**Client Sample ID:** SCI-46B
**Matrix:** SOLID
**Collection Date:** 01/11/2016 15:38

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.9** | % | 1 | 01/13/2016 18:05 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **5.04** | mg/Kg-dry | 1 | 01/13/2016 11:07 | 115555 |
| Barium | NELAP | 0.24 | | **87.8** | mg/Kg-dry | 1 | 01/13/2016 11:07 | 115555 |
| Cadmium | NELAP | 0.19 | J | **0.16** | mg/Kg-dry | 1 | 01/13/2016 11:07 | 115555 |
| Chromium | NELAP | 0.48 | | **20.1** | mg/Kg-dry | 1 | 01/13/2016 11:07 | 115555 |
| Lead | NELAP | 1.44 | | **10.6** | mg/Kg-dry | 1 | 01/13/2016 11:07 | 115555 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/13/2016 11:07 | 115555 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/13/2016 11:07 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.026** | mg/Kg-dry | 1 | 01/12/2016 10:49 | 115538 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:37 | 115540 |
| Aroclor 1221 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:37 | 115540 |
| Aroclor 1232 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:37 | 115540 |
| Aroclor 1242 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:37 | 115540 |
| Aroclor 1248 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:37 | 115540 |
| Aroclor 1254 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:37 | 115540 |
| Aroclor 1260 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:37 | 115540 |
| Surr: Decachlorobiphenyl | | 5-156 | | **96.6** | %REC | 1 | 01/13/2016 17:37 | 115540 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **78.0** | %REC | 1 | 01/13/2016 17:37 | 115540 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Anthracene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0428 | J | **0.027** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Chrysene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Fluoranthene | NELAP | 0.0428 | | **0.0539** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Fluorene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Pyrene | NELAP | 0.0428 | | **0.0449** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| TPH-DRO (C10 - C21) | | 15.1 | J | **8.0** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| TPH-ORO (C21 - C35) | | 15.1 | J | **7.6** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **49.4** | %REC | 1 | 01/12/2016 21:28 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **53.7** | %REC | 1 | 01/12/2016 21:28 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **81.0** | %REC | 1 | 01/12/2016 21:28 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,1-Dichloro-2-propanone | | 42.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-015 **Client Sample ID:** SCI-46B

**Matrix:** SOLID **Collection Date:** 01/11/2016 15:38

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2-Dichloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1-Chlorobutane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 2-Butanone | NELAP | 42.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 2-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 2-Hexanone | NELAP | 42.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 2-Nitropropane | NELAP | 42.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 4-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 42.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Acetone | NELAP | 42.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Acetonitrile | NELAP | 84.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Acrolein | NELAP | 84.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Acrylonitrile | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Allyl chloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Bromobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Bromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Bromodichloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Bromoform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Bromomethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Carbon disulfide | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Carbon tetrachloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Chlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Chloroethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Chloroform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Chloromethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Cyclohexanone | | 84.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Dibromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Dibromomethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Dichlorodifluoromethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Diisopropyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-015 **Client Sample ID:** SCI-46B

**Matrix:** SOLID **Collection Date:** 01/11/2016 15:38

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Ethyl methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Ethylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Ethyl-tert-butyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Hexachlorobutadiene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Hexachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Iodomethane | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Isopropylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| m,p-Xylenes | NELAP | 4.2 | J | **0.9** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Methacrylonitrile | NELAP | 42.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Methyl Methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Methylacrylate | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Methylene chloride | NELAP | 4.2 | J | **1.2** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Naphthalene | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| n-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| n-Heptane | | 16.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| n-Hexane | | 16.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Nitrobenzene | NELAP | 84.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| n-Propylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| o-Xylene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Pentachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| p-Isopropyltoluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Propionitrile | NELAP | 42.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| sec-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Styrene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| tert-Amyl methyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| tert-Butyl alcohol | NELAP | 42.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| tert-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Tetrachloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Tetrahydrofuran | NELAP | 42.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Toluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| TPH - GRO (C6 - C10) | | 421 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Trichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Trichlorofluoromethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Vinyl acetate | NELAP | 42.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Xylenes, Total | NELAP | 4.2 | J | **0.9** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **95.4** | %REC | 1 | 01/12/2016 18:46 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **104.0** | %REC | 1 | 01/12/2016 18:46 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **102.1** | %REC | 1 | 01/12/2016 18:46 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-016 **Client Sample ID:** TB-6

**Matrix:** TRIP BLANK **Collection Date:** 01/11/2016 16:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Acetone | NELAP | 25.0 | J | **9.4** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-016 **Client Sample ID:** TB-6

**Matrix:** TRIP BLANK **Collection Date:** 01/11/2016 16:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Naphthalene | NELAP | 3.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010531
**Client Project:** NGA 2015-0461.21
**Report Date:** 15-Jan-16
**Lab ID:** 16010531-016
**Client Sample ID:** TB-6
**Matrix:** TRIP BLANK
**Collection Date:** 01/11/2016 16:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **95.4** | %REC | 1 | 01/12/2016 11:36 | 115558 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **102.0** | %REC | 1 | 01/12/2016 11:36 | 115558 |
| Surr: Toluene-d8 | | 84.3-114 | | **96.7** | %REC | 1 | 01/12/2016 11:36 | 115558 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-017 **Client Sample ID:** EB-4

**Matrix:** AQUEOUS **Collection Date:** 01/11/2016 15:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Acetone | NELAP | 25.0 | J | **11** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-017 **Client Sample ID:** EB-4

**Matrix:** AQUEOUS **Collection Date:** 01/11/2016 15:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Naphthalene | NELAP | 3.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010531
**Client Project:** NGA 2015-0461.21
**Report Date:** 15-Jan-16
**Lab ID:** 16010531-017
**Client Sample ID:** EB-4
**Matrix:** AQUEOUS
**Collection Date:** 01/11/2016 15:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **98.5** | %REC | 1 | 01/12/2016 12:03 | 115558 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **102.4** | %REC | 1 | 01/12/2016 12:03 | 115558 |
| Surr: Toluene-d8 | | 84.3-114 | | **98.5** | %REC | 1 | 01/12/2016 12:03 | 115558 |

# Quality Control Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010531
**Report Date:** 15-Jan-16

## EPA SW846 3550C, 5035A, ASTM D2974

**Batch** R213742 **SampType:** LCS Units **%**
SampID: LCS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 01/13/2016 |

**Batch** R213742 **SampType:** LCSQC Units **%**
SampID: LCSQC

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 01/13/2016 |

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115555 **SampType:** MBLK Units **mg/Kg-dry**
SampID: MBLK-115555

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 01/13/2016 |
| Barium | 0.25 | | **< 0.25** | 0.2500 | 0 | 0 | -100 | 100 | 01/13/2016 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 01/13/2016 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/13/2016 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 01/13/2016 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 01/13/2016 |
| Silver | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/13/2016 |

**Batch** 115555 **SampType:** LCS Units **mg/Kg-dry**
SampID: LCS-115555

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **46.8** | 50.00 | 0 | 93.6 | 85 | 115 | 01/13/2016 |
| Barium | 0.25 | | **188** | 200.0 | 0 | 94.0 | 85 | 115 | 01/13/2016 |
| Cadmium | 0.20 | | **4.79** | 5.000 | 0 | 95.8 | 85 | 115 | 01/13/2016 |
| Chromium | 0.50 | | **20.0** | 20.00 | 0 | 100.2 | 85 | 115 | 01/13/2016 |
| Lead | 1.50 | | **50.6** | 50.00 | 0 | 101.1 | 85 | 115 | 01/13/2016 |
| Selenium | 4.00 | | **47.8** | 50.00 | 0 | 95.5 | 85 | 115 | 01/13/2016 |
| Silver | 0.50 | | **4.52** | 5.000 | 0 | 90.4 | 85 | 115 | 01/13/2016 |

**Batch** 115555 **SampType:** MS Units **mg/Kg-dry**
SampID: 16010531-005AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **51.2** | 50.00 | 5.830 | 90.6 | 75 | 125 | 01/13/2016 |
| Barium | 0.25 | | **292** | 200.0 | 102.7 | 94.8 | 75 | 125 | 01/13/2016 |
| Cadmium | 0.20 | | **4.91** | 5.000 | 0.2100 | 94.0 | 75 | 125 | 01/13/2016 |
| Chromium | 0.50 | | **42.5** | 20.00 | 22.20 | 101.4 | 75 | 125 | 01/13/2016 |
| Lead | 1.50 | | **59.7** | 50.00 | 10.21 | 98.9 | 75 | 125 | 01/13/2016 |
| Selenium | 4.00 | | **47.1** | 50.00 | 0 | 94.2 | 75 | 125 | 01/13/2016 |
| Silver | 0.50 | | **4.31** | 5.000 | 0 | 86.2 | 75 | 125 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 3050B, 6010B, METALS BY ICP

**Batch 115555** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **20**

SampID: 16010531-005AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **51.0** | 50.00 | 5.830 | 90.4 | 51.15 | 0.20 | 01/13/2016 |
| Barium | 0.25 | | **300** | 200.0 | 102.7 | 98.4 | 292.4 | 2.40 | 01/13/2016 |
| Cadmium | 0.20 | | **4.94** | 5.000 | 0.2100 | 94.6 | 4.910 | 0.61 | 01/13/2016 |
| Chromium | 0.50 | | **42.7** | 20.00 | 22.20 | 102.4 | 42.49 | 0.45 | 01/13/2016 |
| Lead | 1.50 | | **59.9** | 50.00 | 10.21 | 99.4 | 59.66 | 0.40 | 01/13/2016 |
| Selenium | 4.00 | | **48.7** | 50.00 | 0 | 97.4 | 47.11 | 3.30 | 01/13/2016 |
| Silver | 0.50 | | **4.29** | 5.000 | 0 | 85.8 | 4.310 | 0.47 | 01/13/2016 |

**Batch 115555** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010531-013AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.31 | | **49.2** | 46.30 | 6.574 | 92.1 | 75 | 125 | 01/13/2016 |
| Barium | 0.23 | | **288** | 185.2 | 111.5 | 95.3 | 75 | 125 | 01/13/2016 |
| Cadmium | 0.19 | | **4.74** | 4.630 | 0.2500 | 97.0 | 75 | 125 | 01/13/2016 |
| Chromium | 0.46 | | **37.0** | 18.52 | 18.79 | 98.6 | 75 | 125 | 01/13/2016 |
| Lead | 1.39 | | **60.2** | 46.30 | 11.82 | 104.6 | 75 | 125 | 01/13/2016 |
| Selenium | 3.70 | | **45.4** | 46.30 | 0 | 98.1 | 75 | 125 | 01/13/2016 |
| Silver | 0.46 | | **4.05** | 4.630 | 0 | 87.4 | 75 | 125 | 01/13/2016 |

**Batch 115555** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **20**

SampID: 16010531-013AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.31 | | **49.5** | 46.30 | 6.574 | 92.8 | 49.23 | 0.64 | 01/13/2016 |
| Barium | 0.23 | | **299** | 185.2 | 111.5 | 101.1 | 287.9 | 3.69 | 01/13/2016 |
| Cadmium | 0.19 | | **4.73** | 4.630 | 0.2500 | 96.8 | 4.741 | 0.20 | 01/13/2016 |
| Chromium | 0.46 | | **37.7** | 18.52 | 18.79 | 102.0 | 37.05 | 1.69 | 01/13/2016 |
| Lead | 1.39 | | **60.8** | 46.30 | 11.82 | 105.7 | 60.23 | 0.87 | 01/13/2016 |
| Selenium | 3.70 | | **45.1** | 46.30 | 0 | 97.4 | 45.42 | 0.72 | 01/13/2016 |
| Silver | 0.46 | | **4.02** | 4.630 | 0 | 86.8 | 4.046 | 0.69 | 01/13/2016 |

## SW-846 7471B

**Batch 115538** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115538

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **< 0.010** | 0.01000 | 0 | 0 | -100 | 100 | 01/12/2016 |

**Batch 115538** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115538

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.254** | 0.2500 | 0 | 101.7 | 85 | 115 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 7471B

**Batch 115538** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010510-001AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.753 | | **21.6** | 18.82 | 1.540 | 106.8 | 75 | 125 | 01/12/2016 |

**Batch 115538** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**

SampID: 16010510-001AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.753 | | **21.2** | 18.82 | 1.540 | 104.5 | 21.65 | 2.09 | 01/12/2016 |

**Batch 115538** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010531-005AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.340** | 0.2997 | 0.02691 | 104.6 | 75 | 125 | 01/12/2016 |

**Batch 115538** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**

SampID: 16010531-005AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.336** | 0.2997 | 0.02691 | 103.2 | 0.3405 | 1.29 | 01/12/2016 |

## SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD

**Batch 115540** **SampType: MBLK** Units **µg/Kg**

SampID: MBLK-115540

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 37.5 | | **ND** | | | | | | 01/13/2016 |
| Aroclor 1221 | 37.5 | | **ND** | | | | | | 01/13/2016 |
| Aroclor 1232 | 37.5 | | **ND** | | | | | | 01/13/2016 |
| Aroclor 1242 | 37.5 | | **ND** | | | | | | 01/13/2016 |
| Aroclor 1248 | 37.5 | | **ND** | | | | | | 01/13/2016 |
| Aroclor 1254 | 37.5 | | **ND** | | | | | | 01/13/2016 |
| Aroclor 1260 | 37.5 | | **ND** | | | | | | 01/13/2016 |
| Surr: Decachlorobiphenyl | | | **8.2** | 8.300 | | 99.3 | 76.4 | 155 | 01/13/2016 |
| Surr: Tetrachloro-meta-xylene | | | **7.1** | 8.300 | | 85.9 | 44.4 | 122 | 01/13/2016 |

**Batch 115540** **SampType: LCS** Units **µg/Kg**

SampID: LCSPCB-115540

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 37.5 | | **144** | 166.7 | 0 | 86.1 | 63.5 | 130 | 01/13/2016 |
| Aroclor 1260 | 37.5 | | **141** | 166.7 | 0 | 84.9 | 76 | 138 | 01/13/2016 |
| Surr: Decachlorobiphenyl | | | **7.2** | 8.300 | | 87.2 | 76.4 | 155 | 01/13/2016 |
| Surr: Tetrachloro-meta-xylene | | | **7.0** | 8.300 | | 84.8 | 44.4 | 122 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD

**Batch 115540** **SampType: MS** Units **µg/Kg-dry**

SampID: 16010531-006AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 45.9 | | **153** | 204.1 | 0 | 74.9 | 35.8 | 143 | 01/13/2016 |
| Aroclor 1260 | 45.9 | | **161** | 204.1 | 0 | 79.0 | 22.3 | 152 | 01/13/2016 |
| Surr: Decachlorobiphenyl | | | **9.0** | 10.16 | | 88.6 | 5 | 156 | 01/13/2016 |
| Surr: Tetrachloro-meta-xylene | | | **8.2** | 10.16 | | 80.8 | 7.35 | 123 | 01/13/2016 |

**Batch 115540** **SampType: MSD** Units **µg/Kg-dry** RPD Limit **40**

SampID: 16010531-006AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 46.0 | | **147** | 204.5 | 0 | 71.7 | 152.8 | 4.14 | 01/13/2016 |
| Aroclor 1260 | 46.0 | | **160** | 204.5 | 0 | 78.3 | 161.2 | 0.72 | 01/13/2016 |
| Surr: Decachlorobiphenyl | | | **9.2** | 10.18 | | 89.9 | | | 01/13/2016 |
| Surr: Tetrachloro-meta-xylene | | | **7.8** | 10.18 | | 76.2 | | | 01/13/2016 |

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115545** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115545

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Anthracene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Benzo(a)anthracene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Benzo(a)pyrene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Chrysene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Fluoranthene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Fluorene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Pyrene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| TPH-DRO (C10 - C21) | 12.0 | J | **6.8** | | | | | | 01/12/2016 |
| TPH-ORO (C21 - C35) | 12.0 | J | **7.6** | | | | | | 01/12/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.675** | 0.8350 | | 80.9 | 42.6 | 97.2 | 01/12/2016 |
| Surr: Nitrobenzene-d5 | | | **0.637** | 0.8350 | | 76.3 | 16.7 | 118 | 01/12/2016 |
| Surr: p-Terphenyl-d14 | | | **0.785** | 0.8350 | | 94.0 | 50.1 | 111 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115545** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115545

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **1.34** | 1.670 | 0 | 80.5 | 56.4 | 104 | 01/12/2016 |
| Anthracene | 0.0340 | | **1.24** | 1.670 | 0 | 74.0 | 55.9 | 101 | 01/12/2016 |
| Benzo(a)anthracene | 0.0340 | | **1.23** | 1.670 | 0 | 73.9 | 51.7 | 107 | 01/12/2016 |
| Benzo(a)pyrene | 0.0340 | | **1.30** | 1.670 | 0 | 77.7 | 57.2 | 114 | 01/12/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **1.32** | 1.670 | 0 | 78.9 | 45.3 | 116 | 01/12/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **1.30** | 1.670 | 0 | 77.8 | 58.2 | 114 | 01/12/2016 |
| Chrysene | 0.0340 | | **1.27** | 1.670 | 0 | 76.1 | 58.9 | 102 | 01/12/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **1.41** | 1.670 | 0 | 84.6 | 48.9 | 123 | 01/12/2016 |
| Fluoranthene | 0.0340 | | **1.28** | 1.670 | 0 | 76.8 | 54.9 | 108 | 01/12/2016 |
| Fluorene | 0.0340 | | **1.27** | 1.670 | 0 | 76.3 | 58 | 101 | 01/12/2016 |
| Pyrene | 0.0340 | | **1.31** | 1.670 | 0 | 78.5 | 53.4 | 107 | 01/12/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.592** | 0.8350 | | 70.9 | 42.6 | 97.2 | 01/12/2016 |
| Surr: Nitrobenzene-d5 | | | **0.788** | 0.8350 | | 94.4 | 16.7 | 118 | 01/12/2016 |
| Surr: p-Terphenyl-d14 | | | **0.701** | 0.8350 | | 83.9 | 50.1 | 111 | 01/12/2016 |

**Batch 115545** **SampType: LCSG** Units **mg/Kg**

SampID: LCSDRO-115545

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 12.0 | | **28.4** | 33.40 | 0 | 84.9 | 53.7 | 103 | 01/12/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.440** | 0.8350 | | 52.7 | 42.6 | 97.2 | 01/12/2016 |
| Surr: Nitrobenzene-d5 | | | **0.380** | 0.8350 | | 45.5 | 16.7 | 118 | 01/12/2016 |
| Surr: p-Terphenyl-d14 | | | **0.678** | 0.8350 | | 81.2 | 50.1 | 111 | 01/12/2016 |

**Batch 115545** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010531-012AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 30.2 | | **63.4** | 42.05 | 23.88 | 94.1 | 34.5 | 160 | 01/13/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.523** | 1.051 | | 49.7 | 12 | 133 | 01/13/2016 |
| Surr: Nitrobenzene-d5 | | | **0.569** | 1.051 | | 54.1 | 30.9 | 115 | 01/13/2016 |
| Surr: p-Terphenyl-d14 | | | **0.776** | 1.051 | | 73.8 | 31.5 | 137 | 01/13/2016 |

**Batch 115545** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **30**

SampID: 16010531-012AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 30.2 | R | **45.3** | 42.04 | 23.88 | 50.9 | 63.45 | 33.40 | 01/13/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.474** | 1.051 | | 45.1 | | | 01/13/2016 |
| Surr: Nitrobenzene-d5 | | | **0.544** | 1.051 | | 51.7 | | | 01/13/2016 |
| Surr: p-Terphenyl-d14 | | | **0.794** | 1.051 | | 75.6 | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115558** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Butanone | 25.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Hexanone | 25.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **ND** | | | | | | 01/12/2016 |
| Acetone | 25.0 | | **ND** | | | | | | 01/12/2016 |
| Acetonitrile | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/12/2016 |
| Acrylonitrile | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Benzene | 2.0 | | **ND** | | | | | | 01/12/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115558** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Chloromethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Chloroprene | 20.0 | | **ND** | | | | | | 01/12/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Cyclohexanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Diisopropyl ether | 2.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl acetate | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **ND** | | | | | | 01/12/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Hexachloroethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Iodomethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Methacrylonitrile | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/12/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/12/2016 |
| n-Butyl acetate | 25.0 | | **ND** | | | | | | 01/12/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/12/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/12/2016 |
| Nitrobenzene | 50.0 | | **ND** | | | | | | 01/12/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Pentachloroethane | 20.0 | | **ND** | | | | | | 01/12/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/12/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| tert-Amyl methyl ether | 2.0 | | **ND** | | | | | | 01/12/2016 |
| tert-Butyl alcohol | 25.0 | | **ND** | | | | | | 01/12/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Tetrahydrofuran | 20.0 | | **ND** | | | | | | 01/12/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115558** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Vinyl acetate | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/12/2016 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 01/12/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.9** | 50.00 | | 95.8 | 74.7 | 129 | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.3** | 50.00 | | 100.5 | 86 | 119 | 01/12/2016 |
| Surr: Toluene-d8 | | | **49.1** | 50.00 | | 98.2 | 84.3 | 114 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115558** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **52.1** | 50.00 | 0 | 104.1 | 52.38 | 0.59 | 01/12/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **47.7** | 50.00 | 0 | 95.4 | 46.77 | 2.01 | 01/12/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 47.04 | 4.08 | 01/12/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **45.9** | 50.00 | 0 | 91.9 | 45.63 | 0.68 | 01/12/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 49.02 | 0.37 | 01/12/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **112** | 125.0 | 0 | 89.8 | 105.4 | 6.26 | 01/12/2016 |
| 1,1-Dichloroethane | 5.0 | | **45.2** | 50.00 | 0 | 90.4 | 45.40 | 0.44 | 01/12/2016 |
| 1,1-Dichloroethene | 5.0 | | **45.5** | 50.00 | 0 | 91.0 | 45.44 | 0.11 | 01/12/2016 |
| 1,1-Dichloropropene | 5.0 | | **48.0** | 50.00 | 0 | 96.1 | 47.94 | 0.21 | 01/12/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 51.02 | 0.31 | 01/12/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **46.3** | 50.00 | 0 | 92.7 | 45.64 | 1.50 | 01/12/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.7 | 50.01 | 0.30 | 01/12/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 49.53 | 1.26 | 01/12/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 51.81 | 1.54 | 01/12/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.5** | 50.00 | 0 | 94.9 | 44.63 | 6.17 | 01/12/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 49.72 | 0.63 | 01/12/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 51.15 | 0.14 | 01/12/2016 |
| 1,2-Dichloroethane | 5.0 | | **45.9** | 50.00 | 0 | 91.7 | 45.66 | 0.46 | 01/12/2016 |
| 1,2-Dichloropropane | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 47.87 | 0.44 | 01/12/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 51.24 | 1.86 | 01/12/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 50.41 | 0.18 | 01/12/2016 |
| 1,3-Dichloropropane | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 47.87 | 1.01 | 01/12/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.7 | 49.98 | 0.24 | 01/12/2016 |
| 1-Chlorobutane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 46.88 | 0.51 | 01/12/2016 |
| 2,2-Dichloropropane | 5.0 | | **48.2** | 50.00 | 0 | 96.5 | 47.90 | 0.73 | 01/12/2016 |
| 2-Butanone | 25.0 | | **125** | 125.0 | 0 | 100.3 | 116.4 | 7.46 | 01/12/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **51.0** | 50.00 | 0 | 101.9 | 47.84 | 6.32 | 01/12/2016 |
| 2-Chlorotoluene | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 49.71 | 0.26 | 01/12/2016 |
| 2-Hexanone | 25.0 | | **120** | 125.0 | 0 | 96.1 | 113.2 | 5.91 | 01/12/2016 |
| 2-Nitropropane | 50.0 | | **520** | 500.0 | 0 | 104.1 | 504.5 | 3.08 | 01/12/2016 |
| 4-Chlorotoluene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 49.70 | 0.04 | 01/12/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **119** | 125.0 | 0 | 95.4 | 111.8 | 6.47 | 01/12/2016 |
| Acetone | 25.0 | | **141** | 125.0 | 0 | 112.9 | 127.3 | 10.30 | 01/12/2016 |
| Acetonitrile | 50.0 | | **481** | 500.0 | 0 | 96.2 | 448.7 | 6.98 | 01/12/2016 |
| Acrolein | 100 | | **453** | 500.0 | 0 | 90.7 | 449.4 | 0.88 | 01/12/2016 |
| Acrylonitrile | 5.0 | | **44.6** | 50.00 | 0 | 89.1 | 44.40 | 0.38 | 01/12/2016 |
| Allyl chloride | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 47.70 | 4.49 | 01/12/2016 |
| Benzene | 2.0 | | **48.7** | 50.00 | 0 | 97.3 | 48.93 | 0.55 | 01/12/2016 |
| Bromobenzene | 5.0 | | **48.6** | 50.00 | 0 | 97.2 | 48.06 | 1.12 | 01/12/2016 |
| Bromochloromethane | 5.0 | | **46.4** | 50.00 | 0 | 92.8 | 45.14 | 2.80 | 01/12/2016 |
| Bromodichloromethane | 5.0 | | **50.9** | 50.00 | 0 | 101.9 | 50.85 | 0.16 | 01/12/2016 |
| Bromoform | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 52.12 | 0.69 | 01/12/2016 |
| Bromomethane | 10.0 | | **48.7** | 50.00 | 0 | 97.4 | 48.52 | 0.35 | 01/12/2016 |
| Carbon disulfide | 5.0 | | **45.2** | 50.00 | 0 | 90.3 | 43.83 | 2.97 | 01/12/2016 |
| Carbon tetrachloride | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 50.03 | 0.52 | 01/12/2016 |
| Chlorobenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 48.98 | 0.00 | 01/12/2016 |
| Chloroethane | 10.0 | | **43.9** | 50.00 | 0 | 87.8 | 43.28 | 1.42 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115558** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **45.4** | 50.00 | 0 | 90.8 | 45.45 | 0.07 | 01/12/2016 |
| Chloromethane | 10.0 | | **37.7** | 50.00 | 0 | 75.4 | 38.71 | 2.59 | 01/12/2016 |
| Chloroprene | 20.0 | | **42.8** | 50.00 | 0 | 85.7 | 42.16 | 1.58 | 01/12/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 46.82 | 1.21 | 01/12/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 52.20 | 1.41 | 01/12/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **46.4** | 50.00 | 0 | 92.9 | 44.36 | 4.60 | 01/12/2016 |
| Cyclohexanone | 50.0 | | **432** | 500.0 | 0 | 86.3 | 408.6 | 5.46 | 01/12/2016 |
| Dibromochloromethane | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 52.54 | 0.99 | 01/12/2016 |
| Dibromomethane | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 48.12 | 0.56 | 01/12/2016 |
| Dichlorodifluoromethane | 10.0 | | **36.7** | 50.00 | 0 | 73.4 | 37.30 | 1.62 | 01/12/2016 |
| Diisopropyl ether | 2.0 | | **49.3** | 50.00 | 0 | 98.6 | 49.27 | 0.04 | 01/12/2016 |
| Ethyl acetate | 10.0 | | **47.0** | 50.00 | 0 | 93.9 | 43.41 | 7.86 | 01/12/2016 |
| Ethyl ether | 5.0 | | **45.0** | 50.00 | 0 | 90.1 | 44.41 | 1.39 | 01/12/2016 |
| Ethyl methacrylate | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 49.03 | 1.24 | 01/12/2016 |
| Ethylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.5 | 48.70 | 0.06 | 01/12/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **48.4** | 50.00 | 0 | 96.8 | 47.87 | 1.14 | 01/12/2016 |
| Hexachlorobutadiene | 5.0 | | **52.3** | 50.00 | 0 | 104.5 | 52.97 | 1.35 | 01/12/2016 |
| Hexachloroethane | 10.0 | | **49.9** | 50.00 | 0 | 99.7 | 50.11 | 0.48 | 01/12/2016 |
| Iodomethane | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 54.23 | 1.23 | 01/12/2016 |
| Isopropylbenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 52.00 | 1.49 | 01/12/2016 |
| m,p-Xylenes | 5.0 | | **99.0** | 100.0 | 0 | 99.0 | 100.0 | 1.06 | 01/12/2016 |
| Methacrylonitrile | 10.0 | | **47.9** | 50.00 | 0 | 95.8 | 44.39 | 7.65 | 01/12/2016 |
| Methyl Methacrylate | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 49.43 | 0.43 | 01/12/2016 |
| Methyl tert-butyl ether | 2.0 | | **49.3** | 50.00 | 0 | 98.6 | 47.87 | 2.98 | 01/12/2016 |
| Methylacrylate | 10.0 | | **50.8** | 50.00 | 0 | 101.6 | 47.03 | 7.71 | 01/12/2016 |
| Methylene chloride | 5.0 | | **45.0** | 50.00 | 0 | 90.1 | 44.73 | 0.67 | 01/12/2016 |
| Naphthalene | 10.0 | | **52.9** | 50.00 | 0 | 105.7 | 52.01 | 1.62 | 01/12/2016 |
| n-Butyl acetate | 25.0 | | **47.9** | 50.00 | 0 | 95.8 | 45.72 | 4.64 | 01/12/2016 |
| n-Butylbenzene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 51.16 | 0.31 | 01/12/2016 |
| n-Heptane | 20.0 | | **47.4** | 50.00 | 0 | 94.7 | 47.49 | 0.30 | 01/12/2016 |
| n-Hexane | 20.0 | | **44.9** | 50.00 | 0 | 89.9 | 45.85 | 2.00 | 01/12/2016 |
| Nitrobenzene | 50.0 | | **440** | 500.0 | 0 | 87.9 | 407.9 | 7.52 | 01/12/2016 |
| n-Propylbenzene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 49.68 | 0.59 | 01/12/2016 |
| o-Xylene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 50.91 | 1.23 | 01/12/2016 |
| Pentachloroethane | 20.0 | | **51.6** | 50.00 | 0 | 103.2 | 52.06 | 0.91 | 01/12/2016 |
| p-Isopropyltoluene | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 52.50 | 0.27 | 01/12/2016 |
| Propionitrile | 50.0 | | **481** | 500.0 | 0 | 96.2 | 450.4 | 6.59 | 01/12/2016 |
| sec-Butylbenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 50.95 | 1.05 | 01/12/2016 |
| Styrene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 53.62 | 2.21 | 01/12/2016 |
| tert-Amyl methyl ether | 2.0 | | **52.0** | 50.00 | 0 | 103.9 | 51.37 | 1.16 | 01/12/2016 |
| tert-Butyl alcohol | 25.0 | | **227** | 250.0 | 0 | 91.0 | 208.5 | 8.70 | 01/12/2016 |
| tert-Butylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.5 | 49.42 | 1.39 | 01/12/2016 |
| Tetrachloroethene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 48.31 | 0.35 | 01/12/2016 |
| Tetrahydrofuran | 20.0 | | **47.2** | 50.00 | 0 | 94.3 | 43.54 | 8.00 | 01/12/2016 |
| Toluene | 5.0 | | **47.8** | 50.00 | 0 | 95.7 | 48.52 | 1.39 | 01/12/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **46.6** | 50.00 | 0 | 93.2 | 45.24 | 2.96 | 01/12/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 52.03 | 1.57 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115558** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **51.4** | 50.00 | 0 | 102.8 | 48.99 | 4.82 | 01/12/2016 |
| Trichloroethene | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 48.32 | 0.10 | 01/12/2016 |
| Trichlorofluoromethane | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 48.36 | 2.59 | 01/12/2016 |
| Vinyl acetate | 10.0 | | **47.3** | 50.00 | 0 | 94.7 | 48.14 | 1.70 | 01/12/2016 |
| Vinyl chloride | 2.0 | | **44.8** | 50.00 | 0 | 89.6 | 45.72 | 2.06 | 01/12/2016 |
| Xylenes, Total | 5.0 | | **149** | 150.0 | 0 | 99.5 | 151.0 | 1.11 | 01/12/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **94.0** | 100.0 | 0 | 94.0 | 92.06 | 2.07 | 01/12/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **104** | 100.0 | 0 | 104.2 | 104.2 | 0.07 | 01/12/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **97.9** | 100.0 | 0 | 97.9 | 93.35 | 4.72 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.0** | 50.00 | | 94.1 | | | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.1** | 50.00 | | 100.2 | | | 01/12/2016 |
| Surr: Toluene-d8 | | | **48.4** | 50.00 | | 96.7 | | | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115558** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 81.9 | 115 | 01/12/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **46.8** | 50.00 | 0 | 93.5 | 79.4 | 124 | 01/12/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **47.0** | 50.00 | 0 | 94.1 | 74.7 | 116 | 01/12/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **45.6** | 50.00 | 0 | 91.3 | 72.9 | 121 | 01/12/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 80.8 | 111 | 01/12/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **105** | 125.0 | 0 | 84.3 | 66.3 | 130 | 01/12/2016 |
| 1,1-Dichloroethane | 5.0 | | **45.4** | 50.00 | 0 | 90.8 | 79.4 | 114 | 01/12/2016 |
| 1,1-Dichloroethene | 5.0 | | **45.4** | 50.00 | 0 | 90.9 | 74.1 | 117 | 01/12/2016 |
| 1,1-Dichloropropene | 5.0 | | **47.9** | 50.00 | 0 | 95.9 | 81.7 | 116 | 01/12/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 79.7 | 118 | 01/12/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **45.6** | 50.00 | 0 | 91.3 | 77.3 | 112 | 01/12/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 79.9 | 119 | 01/12/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 79.3 | 118 | 01/12/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 78.7 | 115 | 01/12/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **44.6** | 50.00 | 0 | 89.3 | 76 | 122 | 01/12/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 80.8 | 114 | 01/12/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 78.3 | 112 | 01/12/2016 |
| 1,2-Dichloroethane | 5.0 | | **45.7** | 50.00 | 0 | 91.3 | 70.6 | 118 | 01/12/2016 |
| 1,2-Dichloropropane | 5.0 | | **47.9** | 50.00 | 0 | 95.7 | 79.6 | 113 | 01/12/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 77.5 | 115 | 01/12/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 78.6 | 117 | 01/12/2016 |
| 1,3-Dichloropropane | 5.0 | | **47.9** | 50.00 | 0 | 95.7 | 78.8 | 112 | 01/12/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 77.8 | 114 | 01/12/2016 |
| 1-Chlorobutane | 5.0 | | **46.9** | 50.00 | 0 | 93.8 | 78.6 | 115 | 01/12/2016 |
| 2,2-Dichloropropane | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 74.9 | 130 | 01/12/2016 |
| 2-Butanone | 25.0 | | **116** | 125.0 | 0 | 93.1 | 70.7 | 136 | 01/12/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **47.8** | 50.00 | 0 | 95.7 | 52.5 | 145 | 01/12/2016 |
| 2-Chlorotoluene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 77.4 | 114 | 01/12/2016 |
| 2-Hexanone | 25.0 | | **113** | 125.0 | 0 | 90.6 | 73.3 | 125 | 01/12/2016 |
| 2-Nitropropane | 50.0 | | **505** | 500.0 | 0 | 100.9 | 67.3 | 139 | 01/12/2016 |
| 4-Chlorotoluene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 78.3 | 115 | 01/12/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **112** | 125.0 | 0 | 89.4 | 76.3 | 122 | 01/12/2016 |
| Acetone | 25.0 | | **127** | 125.0 | 0 | 101.8 | 56.4 | 147 | 01/12/2016 |
| Acetonitrile | 50.0 | | **449** | 500.0 | 0 | 89.7 | 59.3 | 129 | 01/12/2016 |
| Acrolein | 100 | | **449** | 500.0 | 0 | 89.9 | 1 | 201 | 01/12/2016 |
| Acrylonitrile | 5.0 | | **44.4** | 50.00 | 0 | 88.8 | 74.1 | 128 | 01/12/2016 |
| Allyl chloride | 5.0 | | **47.7** | 50.00 | 0 | 95.4 | 71.5 | 123 | 01/12/2016 |
| Benzene | 2.0 | | **48.9** | 50.00 | 0 | 97.9 | 80 | 114 | 01/12/2016 |
| Bromobenzene | 5.0 | | **48.1** | 50.00 | 0 | 96.1 | 73.2 | 118 | 01/12/2016 |
| Bromochloromethane | 5.0 | | **45.1** | 50.00 | 0 | 90.3 | 73.3 | 121 | 01/12/2016 |
| Bromodichloromethane | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 81.6 | 121 | 01/12/2016 |
| Bromoform | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 83.1 | 127 | 01/12/2016 |
| Bromomethane | 10.0 | | **48.5** | 50.00 | 0 | 97.0 | 44.4 | 154 | 01/12/2016 |
| Carbon disulfide | 5.0 | | **43.8** | 50.00 | 0 | 87.7 | 73.2 | 118 | 01/12/2016 |
| Carbon tetrachloride | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 79.4 | 130 | 01/12/2016 |
| Chlorobenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 81.4 | 110 | 01/12/2016 |
| Chloroethane | 10.0 | | **43.3** | 50.00 | 0 | 86.6 | 52.1 | 137 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115558** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **45.4** | 50.00 | 0 | 90.9 | 82.7 | 116 | 01/12/2016 |
| Chloromethane | 10.0 | | **38.7** | 50.00 | 0 | 77.4 | 48.2 | 144 | 01/12/2016 |
| Chloroprene | 20.0 | | **42.2** | 50.00 | 0 | 84.3 | 80.6 | 126 | 01/12/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 78.2 | 116 | 01/12/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 83 | 119 | 01/12/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **44.4** | 50.00 | 0 | 88.7 | 60.7 | 137 | 01/12/2016 |
| Cyclohexanone | 50.0 | | **409** | 500.0 | 0 | 81.7 | 54.2 | 145 | 01/12/2016 |
| Dibromochloromethane | 5.0 | | **52.5** | 50.00 | 0 | 105.1 | 81.2 | 121 | 01/12/2016 |
| Dibromomethane | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 78.3 | 118 | 01/12/2016 |
| Dichlorodifluoromethane | 10.0 | | **37.3** | 50.00 | 0 | 74.6 | 20.6 | 154 | 01/12/2016 |
| Diisopropyl ether | 2.0 | | **49.3** | 50.00 | 0 | 98.5 | 73.1 | 116 | 01/12/2016 |
| Ethyl acetate | 10.0 | | **43.4** | 50.00 | 0 | 86.8 | 73.1 | 116 | 01/12/2016 |
| Ethyl ether | 5.0 | | **44.4** | 50.00 | 0 | 88.8 | 75.2 | 109 | 01/12/2016 |
| Ethyl methacrylate | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 80.1 | 113 | 01/12/2016 |
| Ethylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 77.2 | 113 | 01/12/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **47.9** | 50.00 | 0 | 95.7 | 75 | 118 | 01/12/2016 |
| Hexachlorobutadiene | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 77.3 | 123 | 01/12/2016 |
| Hexachloroethane | 10.0 | | **50.1** | 50.00 | 0 | 100.2 | 74.6 | 117 | 01/12/2016 |
| Iodomethane | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 61.3 | 140 | 01/12/2016 |
| Isopropylbenzene | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 81.3 | 114 | 01/12/2016 |
| m,p-Xylenes | 5.0 | | **100** | 100.0 | 0 | 100.0 | 79.6 | 113 | 01/12/2016 |
| Methacrylonitrile | 10.0 | | **44.4** | 50.00 | 0 | 88.8 | 77.2 | 125 | 01/12/2016 |
| Methyl Methacrylate | 5.0 | | **49.4** | 50.00 | 0 | 98.9 | 74.2 | 121 | 01/12/2016 |
| Methyl tert-butyl ether | 2.0 | | **47.9** | 50.00 | 0 | 95.7 | 76.8 | 117 | 01/12/2016 |
| Methylacrylate | 10.0 | | **47.0** | 50.00 | 0 | 94.1 | 78 | 124 | 01/12/2016 |
| Methylene chloride | 5.0 | | **44.7** | 50.00 | 0 | 89.5 | 74.1 | 114 | 01/12/2016 |
| Naphthalene | 10.0 | | **52.0** | 50.00 | 0 | 104.0 | 77.9 | 122 | 01/12/2016 |
| n-Butyl acetate | 25.0 | | **45.7** | 50.00 | 0 | 91.4 | 74 | 120 | 01/12/2016 |
| n-Butylbenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 71.1 | 120 | 01/12/2016 |
| n-Heptane | 20.0 | | **47.5** | 50.00 | 0 | 95.0 | 67.4 | 129 | 01/12/2016 |
| n-Hexane | 20.0 | | **45.8** | 50.00 | 0 | 91.7 | 68.4 | 126 | 01/12/2016 |
| Nitrobenzene | 50.0 | | **408** | 500.0 | 0 | 81.6 | 37.9 | 181 | 01/12/2016 |
| n-Propylbenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 74.6 | 118 | 01/12/2016 |
| o-Xylene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 80.1 | 111 | 01/12/2016 |
| Pentachloroethane | 20.0 | | **52.1** | 50.00 | 0 | 104.1 | 78.8 | 117 | 01/12/2016 |
| p-Isopropyltoluene | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 77.6 | 118 | 01/12/2016 |
| Propionitrile | 50.0 | | **450** | 500.0 | 0 | 90.1 | 72.9 | 137 | 01/12/2016 |
| sec-Butylbenzene | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 74.5 | 119 | 01/12/2016 |
| Styrene | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 83.4 | 113 | 01/12/2016 |
| tert-Amyl methyl ether | 2.0 | | **51.4** | 50.00 | 0 | 102.7 | 78.7 | 117 | 01/12/2016 |
| tert-Butyl alcohol | 25.0 | | **208** | 250.0 | 0 | 83.4 | 58.1 | 139 | 01/12/2016 |
| tert-Butylbenzene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 75.9 | 114 | 01/12/2016 |
| Tetrachloroethene | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 72.5 | 125 | 01/12/2016 |
| Tetrahydrofuran | 20.0 | | **43.5** | 50.00 | 0 | 87.1 | 69.6 | 125 | 01/12/2016 |
| Toluene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 77.5 | 113 | 01/12/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **45.2** | 50.00 | 0 | 90.5 | 79 | 114 | 01/12/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 78 | 115 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115558 **SampType:** LCS Units µg/L

SampID: LCS-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **49.0** | 50.00 | 0 | 98.0 | 63.3 | 128 | 01/12/2016 |
| Trichloroethene | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 84.4 | 114 | 01/12/2016 |
| Trichlorofluoromethane | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 75.2 | 132 | 01/12/2016 |
| Vinyl acetate | 10.0 | | **48.1** | 50.00 | 0 | 96.3 | 64.5 | 127 | 01/12/2016 |
| Vinyl chloride | 2.0 | | **45.7** | 50.00 | 0 | 91.4 | 58 | 134 | 01/12/2016 |
| Xylenes, Total | 5.0 | | **151** | 150.0 | 0 | 100.6 | 80.1 | 111 | 01/12/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **92.1** | 100.0 | 0 | 92.1 | 78.2 | 116 | 01/12/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **104** | 100.0 | 0 | 104.2 | 78 | 119 | 01/12/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **93.4** | 100.0 | 0 | 93.4 | 60.7 | 137 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.0** | 50.00 | | 96.0 | 74.7 | 129 | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.1** | 50.00 | | 98.2 | 86 | 119 | 01/12/2016 |
| Surr: Toluene-d8 | | | **48.6** | 50.00 | | 97.1 | 84.1 | 114 | 01/12/2016 |

**Batch** 115558 **SampType:** LCSGD Units µg/L RPD Limit **20**

SampID: LCSGD-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1980** | 2000 | 0 | 99.1 | 2012 | 1.45 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **46.8** | 50.00 | | 93.7 | | | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.2** | 50.00 | | 100.5 | | | 01/12/2016 |
| Surr: Toluene-d8 | | | **48.8** | 50.00 | | 97.5 | | | 01/12/2016 |

**Batch** 115558 **SampType:** LCSG Units µg/L

SampID: LCSG-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2010** | 2000 | 0 | 100.6 | 70 | 130 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **46.6** | 50.00 | | 93.2 | 74.7 | 129 | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.0** | 50.00 | | 100.0 | 86 | 119 | 01/12/2016 |
| Surr: Toluene-d8 | | | **49.8** | 50.00 | | 99.7 | 84.3 | 114 | 01/12/2016 |

**Batch** 115558 **SampType:** MS Units µg/L

SampID: 16010555-001AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 20.0 | | **545** | 500.0 | 73.10 | 94.4 | 62.5 | 121 | 01/13/2016 |
| Ethylbenzene | 50.0 | | **710** | 500.0 | 191.6 | 103.6 | 74.4 | 130 | 01/13/2016 |
| m,p-Xylenes | 50.0 | | **1440** | 500.0 | 918.4 | 105.2 | 70.5 | 126 | 01/13/2016 |
| o-Xylene | 50.0 | | **1000** | 500.0 | 460.8 | 108.3 | 71.2 | 124 | 01/13/2016 |
| Toluene | 50.0 | | **902** | 500.0 | 418.8 | 96.7 | 69.5 | 118 | 01/13/2016 |
| Xylenes, Total | 50.0 | | **2450** | 1000 | 1379 | 106.8 | 71.1 | 125 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **421** | 500.0 | | 84.3 | 74.7 | 129 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **513** | 500.0 | | 102.6 | 86 | 119 | 01/13/2016 |
| Surr: Toluene-d8 | | | **472** | 500.0 | | 94.5 | 84.3 | 114 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115558** **SampType:** **MSD** Units **µg/L** RPD Limit **20**

SampID: 16010555-001AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 20.0 | | **542** | 500.0 | 73.10 | 93.8 | 544.9 | 0.48 | 01/13/2016 |
| Ethylbenzene | 50.0 | | **692** | 500.0 | 191.6 | 100.0 | 709.7 | 2.55 | 01/13/2016 |
| m,p-Xylenes | 50.0 | | **1470** | 500.0 | 918.4 | 109.5 | 1444 | 1.48 | 01/13/2016 |
| o-Xylene | 50.0 | | **1010** | 500.0 | 460.8 | 109.0 | 1002 | 0.33 | 01/13/2016 |
| Toluene | 50.0 | | **895** | 500.0 | 418.8 | 95.3 | 902.5 | 0.81 | 01/13/2016 |
| Xylenes, Total | 50.0 | | **2470** | 1000 | 1379 | 109.3 | 2447 | 1.01 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **503** | 500.0 | | 100.6 | | | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **498** | 500.0 | | 99.5 | | | 01/13/2016 |
| Surr: Toluene-d8 | | | **485** | 500.0 | | 97.0 | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115550** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Acetone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Acetonitrile | 100 | | **ND** | | | | | | 01/12/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/12/2016 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Benzene | 1.0 | | **ND** | | | | | | 01/12/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Chloroform | 5.0 | | **ND** | | | | | | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115550** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/12/2016 |
| Cyclohexanone | 100 | | **ND** | | | | | | 01/12/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Iodomethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/12/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Methylene chloride | 5.0 | J | **1.2** | | | | | | 01/12/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/12/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/12/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/12/2016 |
| Nitrobenzene | 100 | | **ND** | | | | | | 01/12/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/12/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 01/12/2016 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 01/12/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/12/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115550** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/12/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.2** | 50.00 | | 100.4 | 72.2 | 131 | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.2** | 50.00 | | 100.4 | 82.1 | 116 | 01/12/2016 |
| Surr: Toluene-d8 | | | **49.5** | 50.00 | | 99.1 | 86 | 116 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115550** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 83.1 | 114 | 01/12/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 78.5 | 119 | 01/12/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.2** | 50.00 | 0 | 96.3 | 67.4 | 120 | 01/12/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **54.5** | 50.00 | 0 | 108.9 | 75.4 | 121 | 01/12/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 81.1 | 111 | 01/12/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **113** | 125.0 | 0 | 90.4 | 55.4 | 131 | 01/12/2016 |
| 1,1-Dichloroethane | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 80.1 | 116 | 01/12/2016 |
| 1,1-Dichloroethene | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 73.1 | 121 | 01/12/2016 |
| 1,1-Dichloropropene | 5.0 | | **52.1** | 50.00 | 0 | 104.1 | 82.2 | 114 | 01/12/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **54.9** | 50.00 | 0 | 109.7 | 81.7 | 130 | 01/12/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **47.6** | 50.00 | 0 | 95.2 | 67.8 | 118 | 01/12/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **47.7** | 50.00 | 0 | 95.5 | 82.1 | 127 | 01/12/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **56.8** | 50.00 | 0 | 113.7 | 72.3 | 141 | 01/12/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 79.7 | 123 | 01/12/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **45.6** | 50.00 | 0 | 91.1 | 62.1 | 123 | 01/12/2016 |
| 1,2-Dibromoethane | 5.0 | | **47.1** | 50.00 | 0 | 94.1 | 82.4 | 112 | 01/12/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 82.7 | 119 | 01/12/2016 |
| 1,2-Dichloroethane | 5.0 | | **48.5** | 50.00 | 0 | 96.9 | 72.8 | 120 | 01/12/2016 |
| 1,2-Dichloropropane | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 80 | 116 | 01/12/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.3 | 81.5 | 125 | 01/12/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 82 | 124 | 01/12/2016 |
| 1,3-Dichloropropane | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 79.8 | 113 | 01/12/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.5 | 81.1 | 124 | 01/12/2016 |
| 1-Chlorobutane | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 77.2 | 113 | 01/12/2016 |
| 2,2-Dichloropropane | 5.0 | | **51.5** | 50.00 | 0 | 102.9 | 76.6 | 121 | 01/12/2016 |
| 2-Butanone | 50.0 | | **103** | 125.0 | 0 | 82.6 | 62.8 | 131 | 01/12/2016 |
| 2-Chlorotoluene | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 78.8 | 121 | 01/12/2016 |
| 2-Hexanone | 50.0 | | **97.8** | 125.0 | 0 | 78.2 | 63.1 | 125 | 01/12/2016 |
| 2-Nitropropane | 50.0 | | **500** | 500.0 | 0 | 99.9 | 61.2 | 129 | 01/12/2016 |
| 4-Chlorotoluene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 77.6 | 124 | 01/12/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **114** | 125.0 | 0 | 91.4 | 60.6 | 126 | 01/12/2016 |
| Acetone | 50.0 | | **117** | 125.0 | 0 | 93.6 | 39.5 | 159 | 01/12/2016 |
| Acetonitrile | 100 | | **493** | 500.0 | 0 | 98.7 | 64.8 | 123 | 01/12/2016 |
| Acrolein | 100 | | **483** | 500.0 | 0 | 96.6 | 1 | 167 | 01/12/2016 |
| Acrylonitrile | 10.0 | | **47.5** | 50.00 | 0 | 95.1 | 67 | 124 | 01/12/2016 |
| Allyl chloride | 5.0 | | **46.5** | 50.00 | 0 | 93.1 | 58.5 | 129 | 01/12/2016 |
| Benzene | 1.0 | | **51.1** | 50.00 | 0 | 102.3 | 80.8 | 117 | 01/12/2016 |
| Bromobenzene | 5.0 | | **48.9** | 50.00 | 0 | 97.7 | 79.6 | 117 | 01/12/2016 |
| Bromochloromethane | 5.0 | | **47.7** | 50.00 | 0 | 95.4 | 70.7 | 121 | 01/12/2016 |
| Bromodichloromethane | 5.0 | | **49.0** | 50.00 | 0 | 97.9 | 80.7 | 121 | 01/12/2016 |
| Bromoform | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 79.8 | 118 | 01/12/2016 |
| Bromomethane | 10.0 | | **52.2** | 50.00 | 0 | 104.3 | 1 | 175 | 01/12/2016 |
| Carbon disulfide | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 62.8 | 123 | 01/12/2016 |
| Carbon tetrachloride | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 77.6 | 123 | 01/12/2016 |
| Chlorobenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 85.6 | 116 | 01/12/2016 |
| Chloroethane | 10.0 | | **48.9** | 50.00 | 0 | 97.8 | 60.2 | 125 | 01/12/2016 |
| Chloroform | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 77.9 | 116 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115550** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **40.7** | 50.00 | 0 | 81.4 | 29.9 | 157 | 01/12/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 80.1 | 116 | 01/12/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **50.3** | 50.00 | 0 | 100.7 | 80.5 | 121 | 01/12/2016 |
| Cyclohexanone | 100 | | **453** | 500.0 | 0 | 90.6 | 45.4 | 128 | 01/12/2016 |
| Dibromochloromethane | 5.0 | | **50.7** | 50.00 | 0 | 101.3 | 84.3 | 116 | 01/12/2016 |
| Dibromomethane | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 76.6 | 115 | 01/12/2016 |
| Dichlorodifluoromethane | 10.0 | | **38.9** | 50.00 | 0 | 77.8 | 1 | 200 | 01/12/2016 |
| Diisopropyl ether | 5.0 | | **43.9** | 50.00 | 0 | 87.8 | 73.6 | 119 | 01/12/2016 |
| Ethyl ether | 5.0 | | **45.6** | 50.00 | 0 | 91.3 | 73.4 | 116 | 01/12/2016 |
| Ethyl methacrylate | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 76.2 | 120 | 01/12/2016 |
| Ethylbenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 84.8 | 116 | 01/12/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **44.5** | 50.00 | 0 | 89.0 | 73.8 | 119 | 01/12/2016 |
| Hexachlorobutadiene | 5.0 | | **56.2** | 50.00 | 0 | 112.3 | 74 | 135 | 01/12/2016 |
| Hexachloroethane | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 76.4 | 121 | 01/12/2016 |
| Iodomethane | 10.0 | | **61.2** | 50.00 | 0 | 122.5 | 38.7 | 161 | 01/12/2016 |
| Isopropylbenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 85 | 125 | 01/12/2016 |
| m,p-Xylenes | 5.0 | | **105** | 100.0 | 0 | 105.3 | 85.3 | 120 | 01/12/2016 |
| Methacrylonitrile | 50.0 | J | **47** | 50.00 | 0 | 93.5 | 65.7 | 120 | 01/12/2016 |
| Methyl Methacrylate | 5.0 | | **45.4** | 50.00 | 0 | 90.7 | 69.1 | 114 | 01/12/2016 |
| Methyl tert-butyl ether | 2.0 | | **45.7** | 50.00 | 0 | 91.3 | 66.6 | 125 | 01/12/2016 |
| Methylacrylate | 10.0 | | **50.9** | 50.00 | 0 | 101.9 | 69.7 | 121 | 01/12/2016 |
| Methylene chloride | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 73.4 | 115 | 01/12/2016 |
| Naphthalene | 10.0 | | **49.8** | 50.00 | 0 | 99.6 | 70.1 | 134 | 01/12/2016 |
| n-Butylbenzene | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 78.4 | 138 | 01/12/2016 |
| n-Heptane | 20.0 | | **51.6** | 50.00 | 0 | 103.3 | 74.3 | 125 | 01/12/2016 |
| n-Hexane | 20.0 | | **53.2** | 50.00 | 0 | 106.3 | 66.3 | 129 | 01/12/2016 |
| Nitrobenzene | 100 | | **467** | 500.0 | 0 | 93.3 | 20.1 | 165 | 01/12/2016 |
| n-Propylbenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 79.1 | 125 | 01/12/2016 |
| o-Xylene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 81.9 | 118 | 01/12/2016 |
| Pentachloroethane | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 72.7 | 123 | 01/12/2016 |
| p-Isopropyltoluene | 5.0 | | **51.7** | 50.00 | 0 | 103.5 | 82.7 | 129 | 01/12/2016 |
| Propionitrile | 50.0 | | **504** | 500.0 | 0 | 100.8 | 64.3 | 121 | 01/12/2016 |
| sec-Butylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.3 | 81.3 | 125 | 01/12/2016 |
| Styrene | 5.0 | | **52.5** | 50.00 | 0 | 105.1 | 88.2 | 122 | 01/12/2016 |
| tert-Amyl methyl ether | 5.0 | | **46.0** | 50.00 | 0 | 91.9 | 74.5 | 120 | 01/12/2016 |
| tert-Butyl alcohol | 50.0 | | **236** | 250.0 | 0 | 94.2 | 51.3 | 129 | 01/12/2016 |
| tert-Butylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 74.8 | 125 | 01/12/2016 |
| Tetrachloroethene | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 84.2 | 122 | 01/12/2016 |
| Tetrahydrofuran | 50.0 | J | **46** | 50.00 | 0 | 92.3 | 61 | 118 | 01/12/2016 |
| Toluene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 81.3 | 113 | 01/12/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 78.2 | 118 | 01/12/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **48.8** | 50.00 | 0 | 97.5 | 81.7 | 124 | 01/12/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **47.5** | 50.00 | 0 | 94.9 | 63.9 | 117 | 01/12/2016 |
| Trichloroethene | 5.0 | | **53.1** | 50.00 | 0 | 106.1 | 81 | 123 | 01/12/2016 |
| Trichlorofluoromethane | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 66.8 | 131 | 01/12/2016 |
| Vinyl acetate | 50.0 | J | **47** | 50.00 | 0 | 93.5 | 64.3 | 122 | 01/12/2016 |
| Vinyl chloride | 2.0 | | **45.9** | 50.00 | 0 | 91.8 | 45.2 | 140 | 01/12/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010531
**Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115550** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **157** | 150.0 | 0 | 104.8 | 85.3 | 118 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.1** | 50.00 | | 96.3 | 72.2 | 131 | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **51.0** | 50.00 | | 102.1 | 82.1 | 116 | 01/12/2016 |
| Surr: Toluene-d8 | | | **47.4** | 50.00 | | 94.8 | 86 | 116 | 01/12/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010531
**Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115550** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 48.76 | 6.68 | 01/12/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 50.91 | 5.63 | 01/12/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 48.15 | 6.43 | 01/12/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **55.6** | 50.00 | 0 | 111.1 | 54.47 | 2.00 | 01/12/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 48.30 | 7.47 | 01/12/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **123** | 125.0 | 0 | 98.4 | 113.0 | 8.42 | 01/12/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 47.81 | 11.73 | 01/12/2016 |
| 1,1-Dichloroethene | 5.0 | | **53.1** | 50.00 | 0 | 106.3 | 50.75 | 4.58 | 01/12/2016 |
| 1,1-Dichloropropene | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 52.06 | 3.95 | 01/12/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **57.8** | 50.00 | 0 | 115.6 | 54.86 | 5.22 | 01/12/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **52.3** | 50.00 | 0 | 104.6 | 47.60 | 9.43 | 01/12/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 47.74 | 4.04 | 01/12/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **59.5** | 50.00 | 0 | 119.0 | 56.84 | 4.57 | 01/12/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **54.5** | 50.00 | 0 | 108.9 | 52.75 | 3.21 | 01/12/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 45.55 | 10.82 | 01/12/2016 |
| 1,2-Dibromoethane | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 47.07 | 7.15 | 01/12/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **54.6** | 50.00 | 0 | 109.1 | 52.13 | 4.57 | 01/12/2016 |
| 1,2-Dichloroethane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 48.46 | 6.28 | 01/12/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 48.88 | 5.39 | 01/12/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.0** | 50.00 | 0 | 103.9 | 50.65 | 2.53 | 01/12/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **55.4** | 50.00 | 0 | 110.8 | 53.72 | 3.10 | 01/12/2016 |
| 1,3-Dichloropropane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 47.42 | 7.51 | 01/12/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **55.6** | 50.00 | 0 | 111.1 | 53.74 | 3.31 | 01/12/2016 |
| 1-Chlorobutane | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 49.63 | 3.45 | 01/12/2016 |
| 2,2-Dichloropropane | 5.0 | | **53.5** | 50.00 | 0 | 106.9 | 51.47 | 3.79 | 01/12/2016 |
| 2-Butanone | 50.0 | | **116** | 125.0 | 0 | 92.5 | 103.3 | 11.22 | 01/12/2016 |
| 2-Chlorotoluene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 52.63 | 2.61 | 01/12/2016 |
| 2-Hexanone | 50.0 | | **110** | 125.0 | 0 | 88.4 | 97.77 | 12.20 | 01/12/2016 |
| 2-Nitropropane | 50.0 | | **560** | 500.0 | 0 | 112.0 | 499.7 | 11.41 | 01/12/2016 |
| 4-Chlorotoluene | 5.0 | | **54.1** | 50.00 | 0 | 108.3 | 52.88 | 2.35 | 01/12/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **129** | 125.0 | 0 | 103.0 | 114.3 | 11.87 | 01/12/2016 |
| Acetone | 50.0 | | **130** | 125.0 | 0 | 104.1 | 117.0 | 10.67 | 01/12/2016 |
| Acetonitrile | 100 | | **545** | 500.0 | 0 | 109.0 | 493.3 | 9.94 | 01/12/2016 |
| Acrolein | 100 | | **546** | 500.0 | 0 | 109.1 | 483.2 | 12.15 | 01/12/2016 |
| Acrylonitrile | 10.0 | | **53.1** | 50.00 | 0 | 106.2 | 47.53 | 11.09 | 01/12/2016 |
| Allyl chloride | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 46.54 | 7.51 | 01/12/2016 |
| Benzene | 1.0 | | **53.8** | 50.00 | 0 | 107.5 | 51.13 | 5.03 | 01/12/2016 |
| Bromobenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.3 | 48.86 | 3.60 | 01/12/2016 |
| Bromochloromethane | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 47.68 | 6.65 | 01/12/2016 |
| Bromodichloromethane | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 48.95 | 6.08 | 01/12/2016 |
| Bromoform | 5.0 | | **58.6** | 50.00 | 0 | 117.2 | 53.63 | 8.84 | 01/12/2016 |
| Bromomethane | 10.0 | | **53.6** | 50.00 | 0 | 107.1 | 52.17 | 2.61 | 01/12/2016 |
| Carbon disulfide | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 49.99 | 4.94 | 01/12/2016 |
| Carbon tetrachloride | 5.0 | | **55.1** | 50.00 | 0 | 110.2 | 52.34 | 5.14 | 01/12/2016 |
| Chlorobenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.5 | 51.76 | 3.75 | 01/12/2016 |
| Chloroethane | 10.0 | | **51.5** | 50.00 | 0 | 103.0 | 48.91 | 5.16 | 01/12/2016 |
| Chloroform | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 50.18 | 5.84 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115550** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **43.3** | 50.00 | 0 | 86.7 | 40.71 | 6.26 | 01/12/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **51.5** | 50.00 | 0 | 102.9 | 49.02 | 4.88 | 01/12/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **53.4** | 50.00 | 0 | 106.8 | 50.33 | 5.94 | 01/12/2016 |
| Cyclohexanone | 100 | | **487** | 500.0 | 0 | 97.3 | 453.2 | 7.10 | 01/12/2016 |
| Dibromochloromethane | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 50.67 | 6.46 | 01/12/2016 |
| Dibromomethane | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 49.60 | 7.14 | 01/12/2016 |
| Dichlorodifluoromethane | 10.0 | | **40.0** | 50.00 | 0 | 80.1 | 38.88 | 2.94 | 01/12/2016 |
| Diisopropyl ether | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 43.90 | 6.42 | 01/12/2016 |
| Ethyl ether | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 45.63 | 8.40 | 01/12/2016 |
| Ethyl methacrylate | 5.0 | | **52.7** | 50.00 | 0 | 105.3 | 47.90 | 9.47 | 01/12/2016 |
| Ethylbenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.1 | 49.09 | 4.85 | 01/12/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 44.48 | 8.34 | 01/12/2016 |
| Hexachlorobutadiene | 5.0 | | **58.2** | 50.00 | 0 | 116.5 | 56.16 | 3.62 | 01/12/2016 |
| Hexachloroethane | 5.0 | | **52.3** | 50.00 | 0 | 104.5 | 50.83 | 2.77 | 01/12/2016 |
| Iodomethane | 10.0 | | **64.5** | 50.00 | 0 | 129.0 | 61.25 | 5.15 | 01/12/2016 |
| Isopropylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 50.18 | 3.87 | 01/12/2016 |
| m,p-Xylenes | 5.0 | | **110** | 100.0 | 0 | 110.0 | 105.3 | 4.29 | 01/12/2016 |
| Methacrylonitrile | 50.0 | | **51.8** | 50.00 | 0 | 103.5 | 46.74 | 10.19 | 01/12/2016 |
| Methyl Methacrylate | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 45.36 | 12.10 | 01/12/2016 |
| Methyl tert-butyl ether | 2.0 | | **49.6** | 50.00 | 0 | 99.2 | 45.66 | 8.27 | 01/12/2016 |
| Methylacrylate | 10.0 | | **56.1** | 50.00 | 0 | 112.2 | 50.94 | 9.64 | 01/12/2016 |
| Methylene chloride | 5.0 | | **51.5** | 50.00 | 0 | 103.1 | 48.68 | 5.71 | 01/12/2016 |
| Naphthalene | 10.0 | | **54.5** | 50.00 | 0 | 109.0 | 49.79 | 9.03 | 01/12/2016 |
| n-Butylbenzene | 5.0 | | **55.7** | 50.00 | 0 | 111.3 | 54.48 | 2.16 | 01/12/2016 |
| n-Heptane | 20.0 | | **52.5** | 50.00 | 0 | 105.0 | 51.65 | 1.65 | 01/12/2016 |
| n-Hexane | 20.0 | | **54.7** | 50.00 | 0 | 109.3 | 53.16 | 2.80 | 01/12/2016 |
| Nitrobenzene | 100 | | **534** | 500.0 | 0 | 106.7 | 466.6 | 13.42 | 01/12/2016 |
| n-Propylbenzene | 5.0 | | **54.9** | 50.00 | 0 | 109.7 | 53.64 | 2.25 | 01/12/2016 |
| o-Xylene | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 51.89 | 4.06 | 01/12/2016 |
| Pentachloroethane | 5.0 | | **52.2** | 50.00 | 0 | 104.5 | 49.99 | 4.42 | 01/12/2016 |
| p-Isopropyltoluene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 51.74 | 1.32 | 01/12/2016 |
| Propionitrile | 50.0 | | **570** | 500.0 | 0 | 114.1 | 504.1 | 12.31 | 01/12/2016 |
| sec-Butylbenzene | 5.0 | | **51.9** | 50.00 | 0 | 103.9 | 50.67 | 2.48 | 01/12/2016 |
| Styrene | 5.0 | | **54.9** | 50.00 | 0 | 109.7 | 52.54 | 4.34 | 01/12/2016 |
| tert-Amyl methyl ether | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 45.97 | 8.44 | 01/12/2016 |
| tert-Butyl alcohol | 50.0 | | **274** | 250.0 | 0 | 109.5 | 235.5 | 15.05 | 01/12/2016 |
| tert-Butylbenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.3 | 52.18 | 3.69 | 01/12/2016 |
| Tetrachloroethene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 51.85 | 3.60 | 01/12/2016 |
| Tetrahydrofuran | 50.0 | | **50.8** | 50.00 | 0 | 101.5 | 46.17 | 9.45 | 01/12/2016 |
| Toluene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 49.92 | 3.39 | 01/12/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **53.1** | 50.00 | 0 | 106.3 | 50.29 | 5.49 | 01/12/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **52.4** | 50.00 | 0 | 104.7 | 48.75 | 7.12 | 01/12/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 47.46 | 5.79 | 01/12/2016 |
| Trichloroethene | 5.0 | | **55.5** | 50.00 | 0 | 111.1 | 53.06 | 4.57 | 01/12/2016 |
| Trichlorofluoromethane | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 51.43 | 3.40 | 01/12/2016 |
| Vinyl acetate | 50.0 | | **52.1** | 50.00 | 0 | 104.2 | 46.77 | 10.78 | 01/12/2016 |
| Vinyl chloride | 2.0 | | **48.6** | 50.00 | 0 | 97.1 | 45.92 | 5.59 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115550** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **164** | 150.0 | 0 | 109.3 | 157.2 | 4.22 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.4** | 50.00 | | 98.8 | | | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.4** | 50.00 | | 100.8 | | | 01/12/2016 |
| Surr: Toluene-d8 | | | **47.2** | 50.00 | | 94.4 | | | 01/12/2016 |

**Batch 115550** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2080** | 2000 | 0 | 104.2 | 70 | 130 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.9** | 50.00 | | 97.7 | 72.2 | 131 | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.7** | 50.00 | | 99.5 | 82.1 | 116 | 01/12/2016 |
| Surr: Toluene-d8 | | | **49.7** | 50.00 | | 99.4 | 86 | 116 | 01/12/2016 |

**Batch 115550** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2170** | 2000 | 0 | 108.5 | 2084 | 3.98 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.5** | 50.00 | | 99.1 | | | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.2** | 50.00 | | 98.5 | | | 01/12/2016 |
| Surr: Toluene-d8 | | | **49.4** | 50.00 | | 98.7 | | | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115552** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Acetone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Acetonitrile | 100 | | **ND** | | | | | | 01/12/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/12/2016 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Benzene | 1.0 | | **ND** | | | | | | 01/12/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Chloroform | 5.0 | | **ND** | | | | | | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115552** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/12/2016 |
| Cyclohexanone | 100 | | **ND** | | | | | | 01/12/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Iodomethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/12/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/12/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/12/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/12/2016 |
| Nitrobenzene | 100 | | **ND** | | | | | | 01/12/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/12/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 01/12/2016 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 01/12/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/12/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115552** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/12/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.7** | 50.00 | | 95.5 | 72.2 | 131 | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **51.0** | 50.00 | | 101.9 | 82.1 | 116 | 01/12/2016 |
| Surr: Toluene-d8 | | | **50.0** | 50.00 | | 100.1 | 86 | 116 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115552** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **49.7** | 50.00 | 0 | 99.5 | 49.11 | 1.25 | 01/12/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 54.26 | 0.91 | 01/12/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 48.22 | 1.36 | 01/12/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **55.1** | 50.00 | 0 | 110.2 | 55.37 | 0.51 | 01/12/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 50.25 | 3.06 | 01/12/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **128** | 125.0 | 0 | 102.4 | 126.7 | 1.01 | 01/12/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 53.46 | 0.06 | 01/12/2016 |
| 1,1-Dichloroethene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 53.55 | 0.32 | 01/12/2016 |
| 1,1-Dichloropropene | 5.0 | | **55.4** | 50.00 | 0 | 110.8 | 55.12 | 0.52 | 01/12/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **51.1** | 50.00 | 0 | 102.1 | 51.65 | 1.13 | 01/12/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **48.1** | 50.00 | 0 | 96.1 | 46.87 | 2.53 | 01/12/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 49.85 | 1.47 | 01/12/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **53.5** | 50.00 | 0 | 106.9 | 53.72 | 0.49 | 01/12/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **54.0** | 50.00 | 0 | 107.9 | 53.13 | 1.53 | 01/12/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 48.81 | 1.90 | 01/12/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 47.99 | 2.27 | 01/12/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 51.84 | 1.19 | 01/12/2016 |
| 1,2-Dichloroethane | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 52.16 | 0.84 | 01/12/2016 |
| 1,2-Dichloropropane | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 52.32 | 1.08 | 01/12/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 53.18 | 1.57 | 01/12/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **53.9** | 50.00 | 0 | 107.9 | 52.96 | 1.83 | 01/12/2016 |
| 1,3-Dichloropropane | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 50.09 | 1.72 | 01/12/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 53.36 | 0.60 | 01/12/2016 |
| 1-Chlorobutane | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 52.14 | 0.65 | 01/12/2016 |
| 2,2-Dichloropropane | 5.0 | | **54.5** | 50.00 | 0 | 109.1 | 54.78 | 0.44 | 01/12/2016 |
| 2-Butanone | 50.0 | | **140** | 125.0 | 0 | 111.6 | 137.3 | 1.65 | 01/12/2016 |
| 2-Chlorotoluene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 52.13 | 1.22 | 01/12/2016 |
| 2-Hexanone | 50.0 | | **132** | 125.0 | 0 | 105.4 | 130.8 | 0.72 | 01/12/2016 |
| 2-Nitropropane | 50.0 | | **512** | 500.0 | 0 | 102.4 | 508.8 | 0.59 | 01/12/2016 |
| 4-Chlorotoluene | 5.0 | | **53.5** | 50.00 | 0 | 107.1 | 52.94 | 1.13 | 01/12/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **127** | 125.0 | 0 | 101.2 | 124.2 | 1.83 | 01/12/2016 |
| Acetone | 50.0 | | **146** | 125.0 | 0 | 117.0 | 143.0 | 2.23 | 01/12/2016 |
| Acetonitrile | 100 | | **485** | 500.0 | 0 | 97.0 | 476.4 | 1.76 | 01/12/2016 |
| Acrolein | 100 | | **526** | 500.0 | 0 | 105.2 | 503.9 | 4.27 | 01/12/2016 |
| Acrylonitrile | 10.0 | | **51.7** | 50.00 | 0 | 103.4 | 51.92 | 0.42 | 01/12/2016 |
| Allyl chloride | 5.0 | | **55.7** | 50.00 | 0 | 111.4 | 55.35 | 0.65 | 01/12/2016 |
| Benzene | 1.0 | | **54.2** | 50.00 | 0 | 108.3 | 53.12 | 1.94 | 01/12/2016 |
| Bromobenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.7 | 49.82 | 2.07 | 01/12/2016 |
| Bromochloromethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 50.52 | 1.16 | 01/12/2016 |
| Bromodichloromethane | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 52.70 | 0.77 | 01/12/2016 |
| Bromoform | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 51.15 | 1.09 | 01/12/2016 |
| Bromomethane | 10.0 | | **66.8** | 50.00 | 0 | 133.6 | 69.07 | 3.31 | 01/12/2016 |
| Carbon disulfide | 5.0 | | **54.3** | 50.00 | 0 | 108.7 | 54.45 | 0.22 | 01/12/2016 |
| Carbon tetrachloride | 5.0 | | **53.2** | 50.00 | 0 | 106.3 | 53.01 | 0.28 | 01/12/2016 |
| Chlorobenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 51.34 | 0.80 | 01/12/2016 |
| Chloroethane | 10.0 | | **52.6** | 50.00 | 0 | 105.3 | 52.09 | 1.03 | 01/12/2016 |
| Chloroform | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 52.64 | 0.59 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115552** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **53.3** | 50.00 | 0 | 106.6 | 53.39 | 0.17 | 01/12/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 51.32 | 1.14 | 01/12/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **54.2** | 50.00 | 0 | 108.4 | 54.34 | 0.26 | 01/12/2016 |
| Cyclohexanone | 100 | | **484** | 500.0 | 0 | 96.8 | 468.2 | 3.34 | 01/12/2016 |
| Dibromochloromethane | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 50.22 | 3.46 | 01/12/2016 |
| Dibromomethane | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 51.09 | 2.40 | 01/12/2016 |
| Dichlorodifluoromethane | 10.0 | | **75.6** | 50.00 | 0 | 151.1 | 75.38 | 0.23 | 01/12/2016 |
| Diisopropyl ether | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 52.41 | 0.40 | 01/12/2016 |
| Ethyl ether | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 49.21 | 0.75 | 01/12/2016 |
| Ethyl methacrylate | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 50.37 | 2.78 | 01/12/2016 |
| Ethylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 50.92 | 1.71 | 01/12/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 51.44 | 1.06 | 01/12/2016 |
| Hexachlorobutadiene | 5.0 | | **53.7** | 50.00 | 0 | 107.5 | 54.51 | 1.42 | 01/12/2016 |
| Hexachloroethane | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 52.84 | 2.60 | 01/12/2016 |
| Iodomethane | 10.0 | | **45.7** | 50.00 | 0 | 91.4 | 46.28 | 1.26 | 01/12/2016 |
| Isopropylbenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 53.27 | 1.58 | 01/12/2016 |
| m,p-Xylenes | 5.0 | | **106** | 100.0 | 0 | 106.0 | 105.4 | 0.61 | 01/12/2016 |
| Methacrylonitrile | 50.0 | | **51.7** | 50.00 | 0 | 103.5 | 50.59 | 2.25 | 01/12/2016 |
| Methyl Methacrylate | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 50.01 | 0.34 | 01/12/2016 |
| Methyl tert-butyl ether | 2.0 | | **53.3** | 50.00 | 0 | 106.6 | 52.69 | 1.17 | 01/12/2016 |
| Methylacrylate | 10.0 | | **53.6** | 50.00 | 0 | 107.3 | 53.46 | 0.32 | 01/12/2016 |
| Methylene chloride | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 51.61 | 0.02 | 01/12/2016 |
| Naphthalene | 10.0 | | **48.8** | 50.00 | 0 | 97.6 | 48.25 | 1.17 | 01/12/2016 |
| n-Butylbenzene | 5.0 | | **55.9** | 50.00 | 0 | 111.8 | 55.42 | 0.86 | 01/12/2016 |
| n-Heptane | 20.0 | | **52.1** | 50.00 | 0 | 104.3 | 54.51 | 4.46 | 01/12/2016 |
| n-Hexane | 20.0 | | **55.2** | 50.00 | 0 | 110.3 | 56.57 | 2.52 | 01/12/2016 |
| Nitrobenzene | 100 | | **454** | 500.0 | 0 | 90.9 | 452.4 | 0.42 | 01/12/2016 |
| n-Propylbenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 53.21 | 0.34 | 01/12/2016 |
| o-Xylene | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 52.17 | 1.18 | 01/12/2016 |
| Pentachloroethane | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 53.19 | 6.38 | 01/12/2016 |
| p-Isopropyltoluene | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 53.54 | 0.52 | 01/12/2016 |
| Propionitrile | 50.0 | | **526** | 500.0 | 0 | 105.1 | 507.5 | 3.52 | 01/12/2016 |
| sec-Butylbenzene | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 53.03 | 1.48 | 01/12/2016 |
| Styrene | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 50.79 | 1.12 | 01/12/2016 |
| tert-Amyl methyl ether | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 51.98 | 0.84 | 01/12/2016 |
| tert-Butyl alcohol | 50.0 | | **239** | 250.0 | 0 | 95.5 | 240.4 | 0.72 | 01/12/2016 |
| tert-Butylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.5 | 52.89 | 1.24 | 01/12/2016 |
| Tetrachloroethene | 5.0 | | **52.6** | 50.00 | 0 | 105.1 | 49.36 | 6.26 | 01/12/2016 |
| Tetrahydrofuran | 50.0 | J | **48** | 50.00 | 0 | 95.1 | 47.30 | 0.00 | 01/12/2016 |
| Toluene | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 52.72 | 1.49 | 01/12/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 53.39 | 1.43 | 01/12/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **53.4** | 50.00 | 0 | 106.9 | 52.78 | 1.26 | 01/12/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 50.48 | 2.27 | 01/12/2016 |
| Trichloroethene | 5.0 | | **54.7** | 50.00 | 0 | 109.5 | 54.46 | 0.51 | 01/12/2016 |
| Trichlorofluoromethane | 5.0 | | **64.9** | 50.00 | 0 | 129.8 | 65.65 | 1.15 | 01/12/2016 |
| Vinyl acetate | 50.0 | | **52.8** | 50.00 | 0 | 105.7 | 58.00 | 9.31 | 01/12/2016 |
| Vinyl chloride | 2.0 | | **61.0** | 50.00 | 0 | 122.1 | 59.07 | 3.26 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115552** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **159** | 150.0 | 0 | 105.9 | 157.5 | 0.80 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **51.4** | 50.00 | | 102.8 | | | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.8** | 50.00 | | 99.6 | | | 01/12/2016 |
| Surr: Toluene-d8 | | | **49.6** | 50.00 | | 99.3 | | | 01/12/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010531
**Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115552** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 83.1 | 114 | 01/12/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **54.3** | 50.00 | 0 | 108.5 | 78.5 | 119 | 01/12/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 67.4 | 120 | 01/12/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **55.4** | 50.00 | 0 | 110.7 | 75.4 | 121 | 01/12/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 81.1 | 111 | 01/12/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **127** | 125.0 | 0 | 101.4 | 55.4 | 131 | 01/12/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.5** | 50.00 | 0 | 106.9 | 80.1 | 116 | 01/12/2016 |
| 1,1-Dichloroethene | 5.0 | | **53.6** | 50.00 | 0 | 107.1 | 73.1 | 121 | 01/12/2016 |
| 1,1-Dichloropropene | 5.0 | | **55.1** | 50.00 | 0 | 110.2 | 82.2 | 114 | 01/12/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 81.7 | 130 | 01/12/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **46.9** | 50.00 | 0 | 93.7 | 67.8 | 118 | 01/12/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 82.1 | 127 | 01/12/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 72.3 | 141 | 01/12/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **53.1** | 50.00 | 0 | 106.3 | 79.7 | 123 | 01/12/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 62.1 | 123 | 01/12/2016 |
| 1,2-Dibromoethane | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 82.4 | 112 | 01/12/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 82.7 | 119 | 01/12/2016 |
| 1,2-Dichloroethane | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 72.8 | 120 | 01/12/2016 |
| 1,2-Dichloropropane | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 80 | 116 | 01/12/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 81.5 | 125 | 01/12/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 82 | 124 | 01/12/2016 |
| 1,3-Dichloropropane | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 79.8 | 113 | 01/12/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.7 | 81.1 | 124 | 01/12/2016 |
| 1-Chlorobutane | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 77.2 | 113 | 01/12/2016 |
| 2,2-Dichloropropane | 5.0 | | **54.8** | 50.00 | 0 | 109.6 | 76.6 | 121 | 01/12/2016 |
| 2-Butanone | 50.0 | | **137** | 125.0 | 0 | 109.8 | 62.8 | 131 | 01/12/2016 |
| 2-Chlorotoluene | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 78.8 | 121 | 01/12/2016 |
| 2-Hexanone | 50.0 | | **131** | 125.0 | 0 | 104.6 | 63.1 | 125 | 01/12/2016 |
| 2-Nitropropane | 50.0 | | **509** | 500.0 | 0 | 101.8 | 61.2 | 129 | 01/12/2016 |
| 4-Chlorotoluene | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 77.6 | 124 | 01/12/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **124** | 125.0 | 0 | 99.4 | 60.6 | 126 | 01/12/2016 |
| Acetone | 50.0 | | **143** | 125.0 | 0 | 114.4 | 39.5 | 159 | 01/12/2016 |
| Acetonitrile | 100 | | **476** | 500.0 | 0 | 95.3 | 64.8 | 123 | 01/12/2016 |
| Acrolein | 100 | | **504** | 500.0 | 0 | 100.8 | 1 | 167 | 01/12/2016 |
| Acrylonitrile | 10.0 | | **51.9** | 50.00 | 0 | 103.8 | 67 | 124 | 01/12/2016 |
| Allyl chloride | 5.0 | | **55.4** | 50.00 | 0 | 110.7 | 58.5 | 129 | 01/12/2016 |
| Benzene | 1.0 | | **53.1** | 50.00 | 0 | 106.2 | 80.8 | 117 | 01/12/2016 |
| Bromobenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 79.6 | 117 | 01/12/2016 |
| Bromochloromethane | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 70.7 | 121 | 01/12/2016 |
| Bromodichloromethane | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 80.7 | 121 | 01/12/2016 |
| Bromoform | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 79.8 | 118 | 01/12/2016 |
| Bromomethane | 10.0 | | **69.1** | 50.00 | 0 | 138.1 | 1 | 175 | 01/12/2016 |
| Carbon disulfide | 5.0 | | **54.4** | 50.00 | 0 | 108.9 | 62.8 | 123 | 01/12/2016 |
| Carbon tetrachloride | 5.0 | | **53.0** | 50.00 | 0 | 106.0 | 77.6 | 123 | 01/12/2016 |
| Chlorobenzene | 5.0 | | **51.3** | 50.00 | 0 | 102.7 | 85.6 | 116 | 01/12/2016 |
| Chloroethane | 10.0 | | **52.1** | 50.00 | 0 | 104.2 | 60.2 | 125 | 01/12/2016 |
| Chloroform | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 77.9 | 116 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115552** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **53.4** | 50.00 | 0 | 106.8 | 29.9 | 157 | 01/12/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 80.1 | 116 | 01/12/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **54.3** | 50.00 | 0 | 108.7 | 80.5 | 121 | 01/12/2016 |
| Cyclohexanone | 100 | | **468** | 500.0 | 0 | 93.6 | 45.4 | 128 | 01/12/2016 |
| Dibromochloromethane | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 84.3 | 116 | 01/12/2016 |
| Dibromomethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 76.6 | 115 | 01/12/2016 |
| Dichlorodifluoromethane | 10.0 | | **75.4** | 50.00 | 0 | 150.8 | 1 | 200 | 01/12/2016 |
| Diisopropyl ether | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 73.6 | 119 | 01/12/2016 |
| Ethyl ether | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 73.4 | 116 | 01/12/2016 |
| Ethyl methacrylate | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 76.2 | 120 | 01/12/2016 |
| Ethylbenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 84.8 | 116 | 01/12/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 73.8 | 119 | 01/12/2016 |
| Hexachlorobutadiene | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 74 | 135 | 01/12/2016 |
| Hexachloroethane | 5.0 | | **52.8** | 50.00 | 0 | 105.7 | 76.4 | 121 | 01/12/2016 |
| Iodomethane | 10.0 | | **46.3** | 50.00 | 0 | 92.6 | 38.7 | 161 | 01/12/2016 |
| Isopropylbenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 85 | 125 | 01/12/2016 |
| m,p-Xylenes | 5.0 | | **105** | 100.0 | 0 | 105.4 | 85.3 | 120 | 01/12/2016 |
| Methacrylonitrile | 50.0 | | **50.6** | 50.00 | 0 | 101.2 | 65.7 | 120 | 01/12/2016 |
| Methyl Methacrylate | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 69.1 | 114 | 01/12/2016 |
| Methyl tert-butyl ether | 2.0 | | **52.7** | 50.00 | 0 | 105.4 | 66.6 | 125 | 01/12/2016 |
| Methylacrylate | 10.0 | | **53.5** | 50.00 | 0 | 106.9 | 69.7 | 121 | 01/12/2016 |
| Methylene chloride | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 73.4 | 115 | 01/12/2016 |
| Naphthalene | 10.0 | | **48.2** | 50.00 | 0 | 96.5 | 70.1 | 134 | 01/12/2016 |
| n-Butylbenzene | 5.0 | | **55.4** | 50.00 | 0 | 110.8 | 78.4 | 138 | 01/12/2016 |
| n-Heptane | 20.0 | | **54.5** | 50.00 | 0 | 109.0 | 74.3 | 125 | 01/12/2016 |
| n-Hexane | 20.0 | | **56.6** | 50.00 | 0 | 113.1 | 66.3 | 129 | 01/12/2016 |
| Nitrobenzene | 100 | | **452** | 500.0 | 0 | 90.5 | 20.1 | 165 | 01/12/2016 |
| n-Propylbenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 79.1 | 125 | 01/12/2016 |
| o-Xylene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 81.9 | 118 | 01/12/2016 |
| Pentachloroethane | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 72.7 | 123 | 01/12/2016 |
| p-Isopropyltoluene | 5.0 | | **53.5** | 50.00 | 0 | 107.1 | 82.7 | 129 | 01/12/2016 |
| Propionitrile | 50.0 | | **508** | 500.0 | 0 | 101.5 | 64.3 | 121 | 01/12/2016 |
| sec-Butylbenzene | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 81.3 | 125 | 01/12/2016 |
| Styrene | 5.0 | | **50.8** | 50.00 | 0 | 101.6 | 88.2 | 122 | 01/12/2016 |
| tert-Amyl methyl ether | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 74.5 | 120 | 01/12/2016 |
| tert-Butyl alcohol | 50.0 | | **240** | 250.0 | 0 | 96.2 | 51.3 | 129 | 01/12/2016 |
| tert-Butylbenzene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 74.8 | 125 | 01/12/2016 |
| Tetrachloroethene | 5.0 | | **49.4** | 50.00 | 0 | 98.7 | 84.2 | 122 | 01/12/2016 |
| Tetrahydrofuran | 50.0 | J | **47** | 50.00 | 0 | 94.6 | 61 | 118 | 01/12/2016 |
| Toluene | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 81.3 | 113 | 01/12/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 78.2 | 118 | 01/12/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **52.8** | 50.00 | 0 | 105.6 | 81.7 | 124 | 01/12/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 63.9 | 117 | 01/12/2016 |
| Trichloroethene | 5.0 | | **54.5** | 50.00 | 0 | 108.9 | 81 | 123 | 01/12/2016 |
| Trichlorofluoromethane | 5.0 | S | **65.6** | 50.00 | 0 | 131.3 | 66.8 | 131 | 01/12/2016 |
| Vinyl acetate | 50.0 | | **58.0** | 50.00 | 0 | 116.0 | 64.3 | 122 | 01/12/2016 |
| Vinyl chloride | 2.0 | | **59.1** | 50.00 | 0 | 118.1 | 45.2 | 140 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115552 **SampType:** LCS Units **µg/Kg**

SampID: LCS-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **158** | 150.0 | 0 | 105.0 | 85.3 | 118 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **51.6** | 50.00 | | 103.3 | 72.2 | 131 | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.3** | 50.00 | | 98.7 | 82.1 | 116 | 01/12/2016 |
| Surr: Toluene-d8 | | | **49.7** | 50.00 | | 99.3 | 86 | 116 | 01/12/2016 |

**Batch** 115552 **SampType:** LCSGD Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2360** | 2000 | 0 | 118.2 | 2168 | 8.64 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.9** | 50.00 | | 97.9 | | | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **52.1** | 50.00 | | 104.2 | | | 01/12/2016 |
| Surr: Toluene-d8 | | | **51.8** | 50.00 | | 103.6 | | | 01/12/2016 |

**Batch** 115552 **SampType:** LCSG Units **µg/Kg**

SampID: LCSG-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2170** | 2000 | 0 | 108.4 | 70 | 130 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.7** | 50.00 | | 97.4 | 72.2 | 131 | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **51.0** | 50.00 | | 102.0 | 82.1 | 116 | 01/12/2016 |
| Surr: Toluene-d8 | | | **50.2** | 50.00 | | 100.4 | 86 | 116 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Acetone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Acetonitrile | 100 | | **ND** | | | | | | 01/13/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/13/2016 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Benzene | 1.0 | | **ND** | | | | | | 01/13/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Chloroform | 5.0 | | **ND** | | | | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/13/2016 |
| Cyclohexanone | 100 | | **ND** | | | | | | 01/13/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Iodomethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/13/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Methylene chloride | 5.0 | J | **1.0** | | | | | | 01/13/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/13/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/13/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/13/2016 |
| Nitrobenzene | 100 | | **ND** | | | | | | 01/13/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/13/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 01/13/2016 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 01/13/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/13/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/13/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.1** | 50.00 | | 100.1 | 72.2 | 131 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.8** | 50.00 | | 99.7 | 82.1 | 116 | 01/13/2016 |
| Surr: Toluene-d8 | | | **48.8** | 50.00 | | 97.5 | 86 | 116 | 01/13/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16010531

**Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 83.1 | 114 | 01/13/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **54.0** | 50.00 | 0 | 107.9 | 78.5 | 119 | 01/13/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.2** | 50.00 | 0 | 96.5 | 67.4 | 120 | 01/13/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **58.7** | 50.00 | 0 | 117.5 | 75.4 | 121 | 01/13/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 81.1 | 111 | 01/13/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **104** | 125.0 | 0 | 83.0 | 55.4 | 131 | 01/13/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 80.1 | 116 | 01/13/2016 |
| 1,1-Dichloroethene | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 73.1 | 121 | 01/13/2016 |
| 1,1-Dichloropropene | 5.0 | | **55.1** | 50.00 | 0 | 110.3 | 82.2 | 114 | 01/13/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **56.6** | 50.00 | 0 | 113.1 | 81.7 | 130 | 01/13/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **48.6** | 50.00 | 0 | 97.1 | 67.8 | 118 | 01/13/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.9 | 82.1 | 127 | 01/13/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **59.3** | 50.00 | 0 | 118.6 | 72.3 | 141 | 01/13/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **56.9** | 50.00 | 0 | 113.8 | 79.7 | 123 | 01/13/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **43.1** | 50.00 | 0 | 86.3 | 62.1 | 123 | 01/13/2016 |
| 1,2-Dibromoethane | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 82.4 | 112 | 01/13/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **54.8** | 50.00 | 0 | 109.5 | 82.7 | 119 | 01/13/2016 |
| 1,2-Dichloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 72.8 | 120 | 01/13/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.1** | 50.00 | 0 | 102.3 | 80 | 116 | 01/13/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **54.4** | 50.00 | 0 | 108.7 | 81.5 | 125 | 01/13/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **57.5** | 50.00 | 0 | 115.0 | 82 | 124 | 01/13/2016 |
| 1,3-Dichloropropane | 5.0 | | **49.0** | 50.00 | 0 | 97.9 | 79.8 | 113 | 01/13/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **56.4** | 50.00 | 0 | 112.8 | 81.1 | 124 | 01/13/2016 |
| 1-Chlorobutane | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 77.2 | 113 | 01/13/2016 |
| 2,2-Dichloropropane | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 76.6 | 121 | 01/13/2016 |
| 2-Butanone | 50.0 | | **99.7** | 125.0 | 0 | 79.8 | 62.8 | 131 | 01/13/2016 |
| 2-Chlorotoluene | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 78.8 | 121 | 01/13/2016 |
| 2-Hexanone | 50.0 | | **93.2** | 125.0 | 0 | 74.6 | 63.1 | 125 | 01/13/2016 |
| 2-Nitropropane | 50.0 | | **492** | 500.0 | 0 | 98.5 | 61.2 | 129 | 01/13/2016 |
| 4-Chlorotoluene | 5.0 | | **55.9** | 50.00 | 0 | 111.8 | 77.6 | 124 | 01/13/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **113** | 125.0 | 0 | 90.4 | 60.6 | 126 | 01/13/2016 |
| Acetone | 50.0 | | **110** | 125.0 | 0 | 88.1 | 39.5 | 159 | 01/13/2016 |
| Acetonitrile | 100 | | **489** | 500.0 | 0 | 97.8 | 64.8 | 123 | 01/13/2016 |
| Acrolein | 100 | | **457** | 500.0 | 0 | 91.4 | 1 | 167 | 01/13/2016 |
| Acrylonitrile | 10.0 | | **47.8** | 50.00 | 0 | 95.5 | 67 | 124 | 01/13/2016 |
| Allyl chloride | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 58.5 | 129 | 01/13/2016 |
| Benzene | 1.0 | | **53.9** | 50.00 | 0 | 107.8 | 80.8 | 117 | 01/13/2016 |
| Bromobenzene | 5.0 | | **51.0** | 50.00 | 0 | 102.1 | 79.6 | 117 | 01/13/2016 |
| Bromochloromethane | 5.0 | | **48.9** | 50.00 | 0 | 97.9 | 70.7 | 121 | 01/13/2016 |
| Bromodichloromethane | 5.0 | | **51.1** | 50.00 | 0 | 102.1 | 80.7 | 121 | 01/13/2016 |
| Bromoform | 5.0 | | **54.8** | 50.00 | 0 | 109.7 | 79.8 | 118 | 01/13/2016 |
| Bromomethane | 10.0 | | **55.5** | 50.00 | 0 | 110.9 | 1 | 175 | 01/13/2016 |
| Carbon disulfide | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 62.8 | 123 | 01/13/2016 |
| Carbon tetrachloride | 5.0 | | **56.0** | 50.00 | 0 | 112.1 | 77.6 | 123 | 01/13/2016 |
| Chlorobenzene | 5.0 | | **54.3** | 50.00 | 0 | 108.7 | 85.6 | 116 | 01/13/2016 |
| Chloroethane | 10.0 | | **53.0** | 50.00 | 0 | 106.0 | 60.2 | 125 | 01/13/2016 |
| Chloroform | 5.0 | | **53.2** | 50.00 | 0 | 106.3 | 77.9 | 116 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **44.7** | 50.00 | 0 | 89.4 | 29.9 | 157 | 01/13/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **51.1** | 50.00 | 0 | 102.3 | 80.1 | 116 | 01/13/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **52.7** | 50.00 | 0 | 105.4 | 80.5 | 121 | 01/13/2016 |
| Cyclohexanone | 100 | | **415** | 500.0 | 0 | 83.0 | 45.4 | 128 | 01/13/2016 |
| Dibromochloromethane | 5.0 | | **52.5** | 50.00 | 0 | 105.1 | 84.3 | 116 | 01/13/2016 |
| Dibromomethane | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 76.6 | 115 | 01/13/2016 |
| Dichlorodifluoromethane | 10.0 | | **45.8** | 50.00 | 0 | 91.6 | 1 | 200 | 01/13/2016 |
| Diisopropyl ether | 5.0 | | **46.6** | 50.00 | 0 | 93.1 | 73.6 | 119 | 01/13/2016 |
| Ethyl ether | 5.0 | | **48.1** | 50.00 | 0 | 96.1 | 73.4 | 116 | 01/13/2016 |
| Ethyl methacrylate | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 76.2 | 120 | 01/13/2016 |
| Ethylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 84.8 | 116 | 01/13/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **47.7** | 50.00 | 0 | 95.4 | 73.8 | 119 | 01/13/2016 |
| Hexachlorobutadiene | 5.0 | | **59.6** | 50.00 | 0 | 119.2 | 74 | 135 | 01/13/2016 |
| Hexachloroethane | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 76.4 | 121 | 01/13/2016 |
| Iodomethane | 10.0 | | **64.7** | 50.00 | 0 | 129.5 | 38.7 | 161 | 01/13/2016 |
| Isopropylbenzene | 5.0 | | **52.5** | 50.00 | 0 | 105.1 | 85 | 125 | 01/13/2016 |
| m,p-Xylenes | 5.0 | | **109** | 100.0 | 0 | 109.0 | 85.3 | 120 | 01/13/2016 |
| Methacrylonitrile | 50.0 | J | **46** | 50.00 | 0 | 92.9 | 65.7 | 120 | 01/13/2016 |
| Methyl Methacrylate | 5.0 | | **46.0** | 50.00 | 0 | 92.1 | 69.1 | 114 | 01/13/2016 |
| Methyl tert-butyl ether | 2.0 | | **48.0** | 50.00 | 0 | 95.9 | 66.6 | 125 | 01/13/2016 |
| Methylacrylate | 10.0 | | **50.4** | 50.00 | 0 | 100.9 | 69.7 | 121 | 01/13/2016 |
| Methylene chloride | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 73.4 | 115 | 01/13/2016 |
| Naphthalene | 10.0 | | **50.0** | 50.00 | 0 | 100.0 | 70.1 | 134 | 01/13/2016 |
| n-Butylbenzene | 5.0 | | **59.1** | 50.00 | 0 | 118.3 | 78.4 | 138 | 01/13/2016 |
| n-Heptane | 20.0 | | **56.1** | 50.00 | 0 | 112.2 | 74.3 | 125 | 01/13/2016 |
| n-Hexane | 20.0 | | **58.8** | 50.00 | 0 | 117.6 | 66.3 | 129 | 01/13/2016 |
| Nitrobenzene | 100 | | **436** | 500.0 | 0 | 87.1 | 20.1 | 165 | 01/13/2016 |
| n-Propylbenzene | 5.0 | | **57.2** | 50.00 | 0 | 114.4 | 79.1 | 125 | 01/13/2016 |
| o-Xylene | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 81.9 | 118 | 01/13/2016 |
| Pentachloroethane | 5.0 | | **56.6** | 50.00 | 0 | 113.2 | 72.7 | 123 | 01/13/2016 |
| p-Isopropyltoluene | 5.0 | | **55.9** | 50.00 | 0 | 111.8 | 82.7 | 129 | 01/13/2016 |
| Propionitrile | 50.0 | | **498** | 500.0 | 0 | 99.6 | 64.3 | 121 | 01/13/2016 |
| sec-Butylbenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 81.3 | 125 | 01/13/2016 |
| Styrene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 88.2 | 122 | 01/13/2016 |
| tert-Amyl methyl ether | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 74.5 | 120 | 01/13/2016 |
| tert-Butyl alcohol | 50.0 | | **233** | 250.0 | 0 | 93.2 | 51.3 | 129 | 01/13/2016 |
| tert-Butylbenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.7 | 74.8 | 125 | 01/13/2016 |
| Tetrachloroethene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 84.2 | 122 | 01/13/2016 |
| Tetrahydrofuran | 50.0 | J | **45** | 50.00 | 0 | 90.6 | 61 | 118 | 01/13/2016 |
| Toluene | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 81.3 | 113 | 01/13/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 78.2 | 118 | 01/13/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **50.9** | 50.00 | 0 | 101.8 | 81.7 | 124 | 01/13/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **47.7** | 50.00 | 0 | 95.4 | 63.9 | 117 | 01/13/2016 |
| Trichloroethene | 5.0 | | **55.8** | 50.00 | 0 | 111.7 | 81 | 123 | 01/13/2016 |
| Trichlorofluoromethane | 5.0 | | **55.6** | 50.00 | 0 | 111.3 | 66.8 | 131 | 01/13/2016 |
| Vinyl acetate | 50.0 | J | **50** | 50.00 | 0 | 100.0 | 64.3 | 122 | 01/13/2016 |
| Vinyl chloride | 2.0 | | **50.4** | 50.00 | 0 | 100.8 | 45.2 | 140 | 01/13/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010531
**Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **163** | 150.0 | 0 | 108.5 | 85.3 | 118 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.2** | 50.00 | | 94.5 | 72.2 | 131 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.4 | 82.1 | 116 | 01/13/2016 |
| Surr: Toluene-d8 | | | **47.7** | 50.00 | | 95.4 | 86 | 116 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 51.51 | 2.42 | 01/13/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 53.95 | 0.43 | 01/13/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 48.24 | 5.25 | 01/13/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **58.1** | 50.00 | 0 | 116.3 | 58.73 | 1.01 | 01/13/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 49.84 | 1.32 | 01/13/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **121** | 125.0 | 0 | 96.7 | 103.7 | 15.25 | 01/13/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 53.58 | 0.32 | 01/13/2016 |
| 1,1-Dichloroethene | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 53.23 | 0.77 | 01/13/2016 |
| 1,1-Dichloropropene | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 55.13 | 0.78 | 01/13/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **56.7** | 50.00 | 0 | 113.4 | 56.55 | 0.23 | 01/13/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **50.8** | 50.00 | 0 | 101.5 | 48.55 | 4.45 | 01/13/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 50.44 | 1.34 | 01/13/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **59.6** | 50.00 | 0 | 119.2 | 59.32 | 0.50 | 01/13/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **54.8** | 50.00 | 0 | 109.6 | 56.89 | 3.78 | 01/13/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **49.7** | 50.00 | 0 | 99.3 | 43.14 | 14.07 | 01/13/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 48.01 | 3.92 | 01/13/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.1 | 54.75 | 1.25 | 01/13/2016 |
| 1,2-Dichloroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 50.30 | 1.87 | 01/13/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.7** | 50.00 | 0 | 103.5 | 51.13 | 1.17 | 01/13/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 54.35 | 3.52 | 01/13/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **56.2** | 50.00 | 0 | 112.5 | 57.51 | 2.25 | 01/13/2016 |
| 1,3-Dichloropropane | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 48.96 | 1.06 | 01/13/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.5 | 56.42 | 1.16 | 01/13/2016 |
| 1-Chlorobutane | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 52.10 | 1.02 | 01/13/2016 |
| 2,2-Dichloropropane | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 54.51 | 0.87 | 01/13/2016 |
| 2-Butanone | 50.0 | | **114** | 125.0 | 0 | 91.4 | 99.72 | 13.62 | 01/13/2016 |
| 2-Chlorotoluene | 5.0 | | **54.6** | 50.00 | 0 | 109.1 | 55.49 | 1.69 | 01/13/2016 |
| 2-Hexanone | 50.0 | | **105** | 125.0 | 0 | 84.2 | 93.21 | 12.10 | 01/13/2016 |
| 2-Nitropropane | 50.0 | | **559** | 500.0 | 0 | 111.7 | 492.3 | 12.63 | 01/13/2016 |
| 4-Chlorotoluene | 5.0 | | **55.3** | 50.00 | 0 | 110.5 | 55.88 | 1.12 | 01/13/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **126** | 125.0 | 0 | 100.6 | 113.0 | 10.67 | 01/13/2016 |
| Acetone | 50.0 | | **125** | 125.0 | 0 | 99.6 | 110.1 | 12.33 | 01/13/2016 |
| Acetonitrile | 100 | | **549** | 500.0 | 0 | 109.7 | 488.9 | 11.52 | 01/13/2016 |
| Acrolein | 100 | | **510** | 500.0 | 0 | 101.9 | 456.8 | 10.93 | 01/13/2016 |
| Acrylonitrile | 10.0 | | **52.1** | 50.00 | 0 | 104.1 | 47.76 | 8.62 | 01/13/2016 |
| Allyl chloride | 5.0 | | **48.8** | 50.00 | 0 | 97.7 | 49.12 | 0.55 | 01/13/2016 |
| Benzene | 1.0 | | **53.9** | 50.00 | 0 | 107.8 | 53.91 | 0.02 | 01/13/2016 |
| Bromobenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 51.04 | 0.71 | 01/13/2016 |
| Bromochloromethane | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 48.94 | 2.64 | 01/13/2016 |
| Bromodichloromethane | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 51.07 | 1.23 | 01/13/2016 |
| Bromoform | 5.0 | | **56.3** | 50.00 | 0 | 112.6 | 54.85 | 2.64 | 01/13/2016 |
| Bromomethane | 10.0 | | **55.9** | 50.00 | 0 | 111.8 | 55.46 | 0.75 | 01/13/2016 |
| Carbon disulfide | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 53.27 | 0.32 | 01/13/2016 |
| Carbon tetrachloride | 5.0 | | **55.6** | 50.00 | 0 | 111.1 | 56.03 | 0.82 | 01/13/2016 |
| Chlorobenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 54.33 | 1.30 | 01/13/2016 |
| Chloroethane | 10.0 | | **53.6** | 50.00 | 0 | 107.2 | 53.00 | 1.14 | 01/13/2016 |
| Chloroform | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 53.16 | 0.21 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **45.7** | 50.00 | 0 | 91.5 | 44.68 | 2.34 | 01/13/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 51.14 | 0.97 | 01/13/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **53.1** | 50.00 | 0 | 106.2 | 52.71 | 0.76 | 01/13/2016 |
| Cyclohexanone | 100 | | **475** | 500.0 | 0 | 95.0 | 415.1 | 13.48 | 01/13/2016 |
| Dibromochloromethane | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 52.53 | 0.25 | 01/13/2016 |
| Dibromomethane | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 51.39 | 2.99 | 01/13/2016 |
| Dichlorodifluoromethane | 10.0 | | **45.1** | 50.00 | 0 | 90.2 | 45.80 | 1.58 | 01/13/2016 |
| Diisopropyl ether | 5.0 | | **47.2** | 50.00 | 0 | 94.5 | 46.57 | 1.41 | 01/13/2016 |
| Ethyl ether | 5.0 | | **49.4** | 50.00 | 0 | 98.7 | 48.06 | 2.65 | 01/13/2016 |
| Ethyl methacrylate | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 48.28 | 4.63 | 01/13/2016 |
| Ethylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.6 | 51.60 | 1.52 | 01/13/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 47.71 | 2.85 | 01/13/2016 |
| Hexachlorobutadiene | 5.0 | | **59.7** | 50.00 | 0 | 119.4 | 59.58 | 0.20 | 01/13/2016 |
| Hexachloroethane | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 52.34 | 1.85 | 01/13/2016 |
| Iodomethane | 10.0 | | **65.3** | 50.00 | 0 | 130.5 | 64.73 | 0.83 | 01/13/2016 |
| Isopropylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 52.54 | 1.42 | 01/13/2016 |
| m,p-Xylenes | 5.0 | | **108** | 100.0 | 0 | 108.4 | 109.0 | 0.51 | 01/13/2016 |
| Methacrylonitrile | 50.0 | | **51.1** | 50.00 | 0 | 102.3 | 46.43 | 9.65 | 01/13/2016 |
| Methyl Methacrylate | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 46.04 | 7.53 | 01/13/2016 |
| Methyl tert-butyl ether | 2.0 | | **50.3** | 50.00 | 0 | 100.6 | 47.97 | 4.76 | 01/13/2016 |
| Methylacrylate | 10.0 | | **56.3** | 50.00 | 0 | 112.5 | 50.43 | 10.95 | 01/13/2016 |
| Methylene chloride | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 50.95 | 0.94 | 01/13/2016 |
| Naphthalene | 10.0 | | **53.9** | 50.00 | 0 | 107.8 | 50.02 | 7.47 | 01/13/2016 |
| n-Butylbenzene | 5.0 | | **56.8** | 50.00 | 0 | 113.5 | 59.14 | 4.12 | 01/13/2016 |
| n-Heptane | 20.0 | | **53.6** | 50.00 | 0 | 107.3 | 56.12 | 4.54 | 01/13/2016 |
| n-Hexane | 20.0 | | **56.7** | 50.00 | 0 | 113.4 | 58.80 | 3.62 | 01/13/2016 |
| Nitrobenzene | 100 | | **510** | 500.0 | 0 | 102.0 | 435.5 | 15.76 | 01/13/2016 |
| n-Propylbenzene | 5.0 | | **55.5** | 50.00 | 0 | 111.1 | 57.20 | 2.96 | 01/13/2016 |
| o-Xylene | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 53.86 | 1.55 | 01/13/2016 |
| Pentachloroethane | 5.0 | | **54.4** | 50.00 | 0 | 108.7 | 56.61 | 4.06 | 01/13/2016 |
| p-Isopropyltoluene | 5.0 | | **53.9** | 50.00 | 0 | 107.9 | 55.90 | 3.57 | 01/13/2016 |
| Propionitrile | 50.0 | | **563** | 500.0 | 0 | 112.6 | 497.9 | 12.29 | 01/13/2016 |
| sec-Butylbenzene | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 54.25 | 2.41 | 01/13/2016 |
| Styrene | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 54.31 | 0.52 | 01/13/2016 |
| tert-Amyl methyl ether | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 48.82 | 4.52 | 01/13/2016 |
| tert-Butyl alcohol | 50.0 | | **272** | 250.0 | 0 | 108.7 | 232.9 | 15.37 | 01/13/2016 |
| tert-Butylbenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 55.85 | 4.13 | 01/13/2016 |
| Tetrachloroethene | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 52.08 | 1.22 | 01/13/2016 |
| Tetrahydrofuran | 50.0 | | **51.8** | 50.00 | 0 | 103.6 | 45.29 | 13.37 | 01/13/2016 |
| Toluene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 52.93 | 2.56 | 01/13/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **53.6** | 50.00 | 0 | 107.1 | 53.51 | 0.11 | 01/13/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **51.7** | 50.00 | 0 | 103.4 | 50.89 | 1.60 | 01/13/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 47.70 | 4.37 | 01/13/2016 |
| Trichloroethene | 5.0 | | **55.4** | 50.00 | 0 | 110.9 | 55.84 | 0.74 | 01/13/2016 |
| Trichlorofluoromethane | 5.0 | | **55.3** | 50.00 | 0 | 110.7 | 55.63 | 0.54 | 01/13/2016 |
| Vinyl acetate | 50.0 | | **52.6** | 50.00 | 0 | 105.2 | 49.99 | 5.13 | 01/13/2016 |
| Vinyl chloride | 2.0 | | **50.2** | 50.00 | 0 | 100.4 | 50.41 | 0.46 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115581** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **161** | 150.0 | 0 | 107.6 | 162.8 | 0.85 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.3** | 50.00 | | 98.6 | | | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.0** | 50.00 | | 100.0 | | | 01/13/2016 |
| Surr: Toluene-d8 | | | **46.7** | 50.00 | | 93.4 | | | 01/13/2016 |

**Batch 115581** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2180** | 2000 | 0 | 109.1 | 70 | 130 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.0** | 50.00 | | 96.1 | 72.2 | 131 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.3** | 50.00 | | 98.7 | 82.1 | 116 | 01/13/2016 |
| Surr: Toluene-d8 | | | **49.7** | 50.00 | | 99.5 | 86 | 116 | 01/13/2016 |

**Batch 115581** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2160** | 2000 | 0 | 108.2 | 2182 | 0.82 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.3** | 50.00 | | 98.5 | | | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.8** | 50.00 | | 99.5 | | | 01/13/2016 |
| Surr: Toluene-d8 | | | **49.5** | 50.00 | | 99.1 | | | 01/13/2016 |

# Receiving Check List

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010531
**Report Date:** 15-Jan-16

**Carrier:** Matt Wood

**Received By:** KF

**Completed by:** Kalyn Foecke
**On:** 11-Jan-16

**Reviewed by:** Elizabeth A. Hurley
**On:** 11-Jan-16

**Pages to follow:** Chain of custody 2 Extra pages included 0

| | | | | |
|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ | Temp °C 6.82 |
| Type of thermal preservation? | None ☐ | Ice ☑ | Blue Ice ☐ | Dry Ice ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | | |
| Sample containers intact? | Yes ☑ | No ☐ | | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | | |
| All samples received within holding time? | Yes ☑ | No ☐ | | |
| Reported field parameters measured: | Field ☐ | Lab ☐ | NA ☑ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | | |

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

| | | | |
|---|---|---|---|
| Water – at least one vial per sample has zero headspace? | Yes ☑ | No ☐ | No VOA vials ☐ |
| Water - TOX containers have zero headspace? | Yes ☐ | No ☐ | No TOX containers ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | NA ☐ |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes ☐ | No ☐ | NA ☑ |

**Any No responses must be detailed below or on the COC.**

Trip Blank collection date and time will be reported as the received date and time (end of trip). KF 1/11/16

# CHAIN OF CUSTODY

pg. 1 of 2 Work order # 16010531

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☒ ICE ☐ BLUE ICE ☐ NO ICE 6-8 °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**
Zero headspace KF 1/11/16

**Client Comments:**
Meet MRBCA DTLs

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 | Courier |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16010531-001 | SCI-40A | 1-11-2016 11:50 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X | |
| 002 | SCI-40B | 11:50 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X | |
| 003 | SCI-40D | 11:50 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X | |
| 004 | SCI-41A | 12:25 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X | |
| 005 | SCI-41B | 12:25 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X | |
| 006 | SCI-42A | 12:55 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X | |
| 007 | SCI-42B | 12:55 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X | |
| 008 | SCI-43A | 13:40 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 009 | SCI-43B | 13:40 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 010 | SCI-44A | 14:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 1-11-2016 16:00 | [illegible] | 1/11/16 4:00 |
| [illegible] | 1/11/16 4:30 | M. Kamrnger | 1/11/16 4:30 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

KF 1/11/16

# CHAIN OF CUSTODY

pg. 2 of 2 Work order # 16010531

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
Lab Notes

Client Comments: Meet MRBCA DTLs

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number** NGA 2015-0461.21

**Sample Collector's Name** Travis Clayton

**Results Requested** ☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

**Billing Instructions** 2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 011 | SCI-44B | 1-11-2016 14:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 012 | SCI-45A | 14:45 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 013 | SCI-45B | 14:45 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 014 | SCI-46A | 15:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 015 | SCI-46B | 15:38 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| 016 | TB-6 | 8:00 | | | | | | | | 2 | | X | | | | | | | | X |
| 017 | EB-4 | 15:50 | | | | | | | | 2 | | X | | | | | | | | X |
| 16010531 | | | | | | | | | | | | | | | | | | | | |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 1-11-2016 16:00 | [illegible] | 1/11/16 4:00 |
| [illegible] | 1/11/16 4:30 | [illegible] | 1/11/16 4:30 |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

January 19, 2016

Ben Butterfield
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301
TEL: (618) 206-3028
FAX: (636) 949-8269

**RE:** NGA 2015-0461.21 **WorkOrder:** 16010608

Dear Ben Butterfield:

TEKLAB, INC received 29 samples on 1/12/2016 4:50:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Project Manager
(618)344-1004 ex 16
MAustin@teklabinc.com

# Report Contents

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608

**Report Date:** 19-Jan-16

**This reporting package includes the following:**


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| Laboratory Results | 5 |
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| Receiving Check List | 128 |
| Chain of Custody | Appended |

# Definitions



**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## Abbr Definition

| | |
|---|---|
| CCV | Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration. |
| DF | Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors. |
| DNI | Did not ignite |
| DUP | Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. |
| ICV | Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated. |
| IDPH | IL Dept. of Public Health |
| LCS | Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request). |
| LCSD | Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MBLK | Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses. |
| MDL | Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. |
| MS | Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MSD | Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MW | Molecular weight |
| ND | Not Detected at the Reporting Limit |
| NELAP | NELAP Accredited |
| PQL | Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request). |
| RL | The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL. |
| RPD | Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request). |
| SPK | The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. |
| Surr | Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. |
| TIC | Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET" |
| TNTC | Too numerous to count ( > 200 CFU ) |

## Qualifiers

| | | | |
|---|---|---|---|
| # - | Unknown hydrocarbon | B - | Analyte detected in associated Method Blank |
| E - | Value above quantitation range | H - | Holding times exceeded |
| I - | Associated internal standard was outside method criteria | J - | Analyte detected below quantitation limits |
| M - | Manual Integration used to determine area response | ND - | Not Detected at the Reporting Limit |
| R - | RPD outside accepted recovery limits | S - | Spike Recovery outside recovery limits |
| T - | TIC(Tentatively identified compound) | X - | Value exceeds Maximum Contaminant Level |

# Case Narrative

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608
**Report Date:** 19-Jan-16

**Cooler Receipt Temp:** 2.02 °C

## Locations and Accreditations

| | Collinsville | Springfield | Kansas City | Collinsville Air |
|---|---|---|---|---|
| Address | 5445 Horseshoe Lake Road | 3920 Pintail Dr | 8421 Nieman Road | 5445 Horseshoe Lake Road |
| | Collinsville, IL 62234-7425 | Springfield, IL 62711-9415 | Lenexa, KS 66214 | Collinsville, IL 62234-7425 |
| Phone | (618) 344-1004 | (217) 698-1004 | (913) 541-1998 | (618) 344-1004 |
| Fax | (618) 344-1005 | (217) 698-1005 | (913) 541-1998 | (618) 344-1005 |
| Email | jhriley@teklabinc.com | KKlostermann@teklabinc.com | dthompson@teklabinc.com | EHurley@teklabinc.com |

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|---|---|---|---|---|---|
| Illinois | IEPA | 100226 | NELAP | 1/31/2017 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 1/31/2016 | Collinsville |
| Louisiana | LDEQ | 166493 | NELAP | 6/30/2016 | Collinsville |
| Louisiana | LDEQ | 166578 | NELAP | 6/30/2016 | Collinsville |
| Texas | TCEQ | T104704515-12-1 | NELAP | 7/31/2016 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2016 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2017 | Collinsville |
| Kentucky | KDEP | 98006 | | 12/31/2016 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2016 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2017 | Collinsville |
| Oklahoma | ODEQ | 9978 | | 8/31/2016 | Collinsville |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-001
**Client Sample ID:** SCI-47A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.4** | % | 1 | 01/14/2016 16:06 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **10.1** | mg/Kg-dry | 1 | 01/14/2016 10:47 | 115589 |
| Barium | NELAP | 0.23 | | **183** | mg/Kg-dry | 1 | 01/14/2016 10:47 | 115589 |
| Cadmium | NELAP | 0.19 | | **0.20** | mg/Kg-dry | 1 | 01/14/2016 10:47 | 115589 |
| Chromium | NELAP | 0.46 | | **16.9** | mg/Kg-dry | 1 | 01/14/2016 10:47 | 115589 |
| Lead | NELAP | 1.39 | | **17.2** | mg/Kg-dry | 1 | 01/14/2016 10:47 | 115589 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 01/14/2016 10:47 | 115589 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/14/2016 10:47 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.019** | mg/Kg-dry | 1 | 01/14/2016 10:01 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Anthracene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Chrysene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Fluoranthene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Fluorene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Pyrene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| TPH-DRO (C10 - C21) | | 15.3 | J | **8.2** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| TPH-ORO (C21 - C35) | | 15.3 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **68.1** | %REC | 1 | 01/13/2016 18:37 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **64.1** | %REC | 1 | 01/13/2016 18:37 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **81.7** | %REC | 1 | 01/13/2016 18:37 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,1-Dichloro-2-propanone | | 48.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-001
**Client Sample ID:** SCI-47A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1-Chlorobutane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 2-Butanone | NELAP | 48.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 2-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 2-Hexanone | NELAP | 48.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 2-Nitropropane | NELAP | 48.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 4-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 48.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Acetone | NELAP | 48.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Acetonitrile | NELAP | 97.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Acrolein | NELAP | 97.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Acrylonitrile | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Allyl chloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Bromobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Bromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Bromodichloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Bromoform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Bromomethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Carbon disulfide | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Carbon tetrachloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Chlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Chloroethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Chloroform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Chloromethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Cyclohexanone | | 97.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Dibromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Dibromomethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Diisopropyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Ethyl ether | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Ethyl methacrylate | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Ethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Ethyl-tert-butyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Hexachlorobutadiene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Hexachloroethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Iodomethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Isopropylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| m,p-Xylenes | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Methacrylonitrile | NELAP | 48.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-001
**Client Sample ID:** SCI-47A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Methylacrylate | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Methylene chloride | NELAP | 4.9 | J | **1.6** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Naphthalene | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| n-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| n-Heptane | | 19.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| n-Hexane | | 19.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Nitrobenzene | NELAP | 97.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| n-Propylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| o-Xylene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Pentachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| p-Isopropyltoluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Propionitrile | NELAP | 48.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| sec-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Styrene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| tert-Amyl methyl ether | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| tert-Butyl alcohol | NELAP | 48.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| tert-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Tetrachloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Tetrahydrofuran | NELAP | 48.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Toluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| TPH - GRO (C6 - C10) | | 487 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Trichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Trichlorofluoromethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Vinyl acetate | NELAP | 48.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Xylenes, Total | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **98.0** | %REC | 1 | 01/13/2016 13:45 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.7** | %REC | 1 | 01/13/2016 13:45 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **97.9** | %REC | 1 | 01/13/2016 13:45 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-002
**Client Sample ID:** SCI-47B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.6** | % | 1 | 01/14/2016 16:07 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **5.68** | mg/Kg-dry | 1 | 01/14/2016 10:51 | 115589 |
| Barium | NELAP | 0.24 | | **84.1** | mg/Kg-dry | 1 | 01/14/2016 10:51 | 115589 |
| Cadmium | NELAP | 0.19 | | **0.24** | mg/Kg-dry | 1 | 01/14/2016 10:51 | 115589 |
| Chromium | NELAP | 0.47 | | **22.1** | mg/Kg-dry | 1 | 01/14/2016 10:51 | 115589 |
| Lead | NELAP | 1.42 | | **13.8** | mg/Kg-dry | 1 | 01/14/2016 10:51 | 115589 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/14/2016 10:51 | 115589 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/14/2016 10:51 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.032** | mg/Kg-dry | 1 | 01/14/2016 10:03 | 115590 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 37.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:36 | 115591 |
| Aroclor 1221 | NELAP | 37.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:36 | 115591 |
| Aroclor 1232 | NELAP | 37.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:36 | 115591 |
| Aroclor 1242 | NELAP | 37.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:36 | 115591 |
| Aroclor 1248 | NELAP | 37.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:36 | 115591 |
| Aroclor 1254 | NELAP | 37.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:36 | 115591 |
| Aroclor 1260 | NELAP | 37.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:36 | 115591 |
| Surr: Decachlorobiphenyl | | 5-156 | | **83.1** | %REC | 1 | 01/14/2016 13:36 | 115591 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **75.8** | %REC | 1 | 01/14/2016 13:36 | 115591 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Chrysene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Fluorene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Pyrene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| TPH-DRO (C10 - C21) | | 14.7 | J | **7.9** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| TPH-ORO (C21 - C35) | | 14.7 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **70.5** | %REC | 1 | 01/13/2016 19:07 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **71.1** | %REC | 1 | 01/13/2016 19:07 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **88.1** | %REC | 1 | 01/13/2016 19:07 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,1-Dichloro-2-propanone | | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-002 **Client Sample ID:** SCI-47B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 2-Butanone | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 2-Hexanone | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 2-Nitropropane | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Acetone | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Acetonitrile | NELAP | 90.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Acrolein | NELAP | 90.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Acrylonitrile | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Bromomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Chloroethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Chloromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Cyclohexanone | | 90.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-002 **Client Sample ID:** SCI-47B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Ethyl methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Ethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Ethyl-tert-butyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Hexachlorobutadiene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Hexachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Iodomethane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Isopropylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| m,p-Xylenes | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Methacrylonitrile | NELAP | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Methylacrylate | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Naphthalene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| n-Heptane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| n-Hexane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Nitrobenzene | NELAP | 90.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Propionitrile | NELAP | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| tert-Butyl alcohol | NELAP | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Tetrahydrofuran | NELAP | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| TPH - GRO (C6 - C10) | | 452 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Vinyl acetate | NELAP | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **106.5** | %REC | 1 | 01/13/2016 14:12 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.1** | %REC | 1 | 01/13/2016 14:12 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **99.0** | %REC | 1 | 01/13/2016 14:12 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-003
**Client Sample ID:** SCI-47D (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.5** | % | 1 | 01/14/2016 16:08 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **5.78** | mg/Kg-dry | 1 | 01/14/2016 10:54 | 115589 |
| Barium | NELAP | 0.25 | | **89.7** | mg/Kg-dry | 1 | 01/14/2016 10:54 | 115589 |
| Cadmium | NELAP | 0.20 | | **0.20** | mg/Kg-dry | 1 | 01/14/2016 10:54 | 115589 |
| Chromium | NELAP | 0.49 | | **20.3** | mg/Kg-dry | 1 | 01/14/2016 10:54 | 115589 |
| Lead | NELAP | 1.47 | | **13.1** | mg/Kg-dry | 1 | 01/14/2016 10:54 | 115589 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 01/14/2016 10:54 | 115589 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 01/14/2016 10:54 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.029** | mg/Kg-dry | 1 | 01/14/2016 10:06 | 115590 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:53 | 115591 |
| Aroclor 1221 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:53 | 115591 |
| Aroclor 1232 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:53 | 115591 |
| Aroclor 1242 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:53 | 115591 |
| Aroclor 1248 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:53 | 115591 |
| Aroclor 1254 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:53 | 115591 |
| Aroclor 1260 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:53 | 115591 |
| Surr: Decachlorobiphenyl | | 5-156 | | **83.6** | %REC | 1 | 01/14/2016 13:53 | 115591 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **72.1** | %REC | 1 | 01/14/2016 13:53 | 115591 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Anthracene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Chrysene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Fluoranthene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Fluorene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Pyrene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| TPH-DRO (C10 - C21) | | 14.7 | J | **8.5** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| TPH-ORO (C21 - C35) | | 14.7 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **72.5** | %REC | 1 | 01/13/2016 19:36 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **68.1** | %REC | 1 | 01/13/2016 19:36 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.5** | %REC | 1 | 01/13/2016 19:36 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,1-Dichloro-2-propanone | | 43.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-003
**Client Sample ID:** SCI-47D (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1-Chlorobutane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 2-Butanone | NELAP | 43.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 2-Chlorotoluene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 2-Hexanone | NELAP | 43.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 2-Nitropropane | NELAP | 43.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 4-Chlorotoluene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 43.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Acetone | NELAP | 43.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Acetonitrile | NELAP | 86.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Acrolein | NELAP | 86.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Acrylonitrile | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Allyl chloride | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Bromobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Bromochloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Bromodichloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Bromoform | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Bromomethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Carbon disulfide | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Carbon tetrachloride | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Chlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Chloroethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Chloroform | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Chloromethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Cyclohexanone | | 86.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Dibromochloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Dibromomethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Dichlorodifluoromethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Diisopropyl ether | | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-003
**Client Sample ID:** SCI-47D (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Ethyl methacrylate | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Ethylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Ethyl-tert-butyl ether | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Hexachlorobutadiene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Hexachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Iodomethane | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Isopropylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| m,p-Xylenes | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Methacrylonitrile | NELAP | 43.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Methyl Methacrylate | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Methylacrylate | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Methylene chloride | NELAP | 4.3 | J | **1.2** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Naphthalene | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| n-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| n-Heptane | | 17.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| n-Hexane | | 17.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Nitrobenzene | NELAP | 86.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| n-Propylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| o-Xylene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Pentachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| p-Isopropyltoluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Propionitrile | NELAP | 43.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| sec-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Styrene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| tert-Amyl methyl ether | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| tert-Butyl alcohol | NELAP | 43.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| tert-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Tetrachloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Tetrahydrofuran | NELAP | 43.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Toluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| TPH - GRO (C6 - C10) | | 434 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Trichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Trichlorofluoromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Vinyl acetate | NELAP | 43.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Xylenes, Total | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.9** | %REC | 1 | 01/13/2016 14:38 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.9** | %REC | 1 | 01/13/2016 14:38 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **97.8** | %REC | 1 | 01/13/2016 14:38 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-004
**Client Sample ID:** SCI-48A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 9:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **22.6** | % | 1 | 01/14/2016 16:08 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **10.6** | mg/Kg-dry | 1 | 01/14/2016 10:58 | 115589 |
| Barium | NELAP | 0.24 | | **185** | mg/Kg-dry | 1 | 01/14/2016 10:58 | 115589 |
| Cadmium | NELAP | 0.19 | J | **0.16** | mg/Kg-dry | 1 | 01/14/2016 10:58 | 115589 |
| Chromium | NELAP | 0.48 | | **19.6** | mg/Kg-dry | 1 | 01/14/2016 10:58 | 115589 |
| Lead | NELAP | 1.44 | | **14.0** | mg/Kg-dry | 1 | 01/14/2016 10:58 | 115589 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/14/2016 10:58 | 115589 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/14/2016 10:58 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.038** | mg/Kg-dry | 1 | 01/14/2016 10:15 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Anthracene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Chrysene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Fluoranthene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Fluorene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Pyrene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| TPH-DRO (C10 - C21) | | 15.5 | J | **8.5** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| TPH-ORO (C21 - C35) | | 15.5 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.5** | %REC | 1 | 01/13/2016 20:06 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **68.2** | %REC | 1 | 01/13/2016 20:06 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.8** | %REC | 1 | 01/13/2016 20:06 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,1-Dichloro-2-propanone | | 48.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-004 **Client Sample ID:** SCI-48A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 9:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1-Chlorobutane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 2-Butanone | NELAP | 48.1 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 2-Chlorotoluene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 2-Hexanone | NELAP | 48.1 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 2-Nitropropane | NELAP | 48.1 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 4-Chlorotoluene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 48.1 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Acetone | NELAP | 48.1 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Acetonitrile | NELAP | 96.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Acrolein | NELAP | 96.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Acrylonitrile | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Allyl chloride | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Bromobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Bromochloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Bromodichloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Bromoform | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Bromomethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Carbon disulfide | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Carbon tetrachloride | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Chlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Chloroethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Chloroform | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Chloromethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Cyclohexanone | | 96.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Dibromochloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Dibromomethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Diisopropyl ether | | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Ethyl ether | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Ethyl methacrylate | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Ethylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Ethyl-tert-butyl ether | | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Hexachlorobutadiene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Hexachloroethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Iodomethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Isopropylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| m,p-Xylenes | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Methacrylonitrile | NELAP | 48.1 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-004
**Client Sample ID:** SCI-48A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 9:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Methylacrylate | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Methylene chloride | NELAP | 4.8 | J | **1.2** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Naphthalene | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| n-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| n-Heptane | | 19.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| n-Hexane | | 19.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Nitrobenzene | NELAP | 96.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| n-Propylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| o-Xylene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Pentachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| p-Isopropyltoluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Propionitrile | NELAP | 48.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| sec-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Styrene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| tert-Amyl methyl ether | | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| tert-Butyl alcohol | NELAP | 48.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| tert-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Tetrachloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Tetrahydrofuran | NELAP | 48.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Toluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| TPH - GRO (C6 - C10) | | 481 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Trichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Trichlorofluoromethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Vinyl acetate | NELAP | 48.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Xylenes, Total | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.9** | %REC | 1 | 01/13/2016 15:04 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **97.6** | %REC | 1 | 01/13/2016 15:04 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **98.8** | %REC | 1 | 01/13/2016 15:04 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-005
**Client Sample ID:** SCI-48B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 9:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **22.6** | % | 1 | 01/14/2016 16:08 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **5.73** | mg/Kg-dry | 1 | 01/14/2016 11:19 | 115589 |
| Barium | NELAP | 0.24 | | **100** | mg/Kg-dry | 1 | 01/14/2016 11:19 | 115589 |
| Cadmium | NELAP | 0.19 | J | **0.16** | mg/Kg-dry | 1 | 01/14/2016 11:19 | 115589 |
| Chromium | NELAP | 0.48 | | **19.0** | mg/Kg-dry | 1 | 01/14/2016 11:19 | 115589 |
| Lead | NELAP | 1.44 | | **9.02** | mg/Kg-dry | 1 | 01/14/2016 11:19 | 115589 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/14/2016 11:19 | 115589 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/14/2016 11:19 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.031** | mg/Kg-dry | 1 | 01/14/2016 10:17 | 115590 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:10 | 115591 |
| Aroclor 1221 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:10 | 115591 |
| Aroclor 1232 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:10 | 115591 |
| Aroclor 1242 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:10 | 115591 |
| Aroclor 1248 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:10 | 115591 |
| Aroclor 1254 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:10 | 115591 |
| Aroclor 1260 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:10 | 115591 |
| Surr: Decachlorobiphenyl | | 5-156 | | **92.5** | %REC | 1 | 01/14/2016 14:10 | 115591 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **83.7** | %REC | 1 | 01/14/2016 14:10 | 115591 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Anthracene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Chrysene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Fluoranthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Fluorene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Pyrene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| TPH-DRO (C10 - C21) | | 15.4 | J | **8.4** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| TPH-ORO (C21 - C35) | | 15.4 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **73.0** | %REC | 1 | 01/13/2016 20:36 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **69.4** | %REC | 1 | 01/13/2016 20:36 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **81.4** | %REC | 1 | 01/13/2016 20:36 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,1-Dichloro-2-propanone | | 48.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-005 **Client Sample ID:** SCI-48B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 9:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1-Chlorobutane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 2-Butanone | NELAP | 48.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 2-Chlorotoluene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 2-Hexanone | NELAP | 48.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 2-Nitropropane | NELAP | 48.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 4-Chlorotoluene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 48.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Acetone | NELAP | 48.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Acetonitrile | NELAP | 96.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Acrolein | NELAP | 96.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Acrylonitrile | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Allyl chloride | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Bromobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Bromochloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Bromodichloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Bromoform | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Bromomethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Carbon disulfide | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Carbon tetrachloride | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Chlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Chloroethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Chloroform | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Chloromethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Cyclohexanone | | 96.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Dibromochloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Dibromomethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Diisopropyl ether | | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-005 **Client Sample ID:** SCI-48B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 9:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Ethyl methacrylate | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Ethylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Ethyl-tert-butyl ether | | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Hexachlorobutadiene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Hexachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Iodomethane | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Isopropylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| m,p-Xylenes | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Methacrylonitrile | NELAP | 48.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Methyl Methacrylate | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Methylacrylate | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Methylene chloride | NELAP | 4.8 | J | **1.1** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Naphthalene | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| n-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| n-Heptane | | 19.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| n-Hexane | | 19.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Nitrobenzene | NELAP | 96.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| n-Propylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| o-Xylene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Pentachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| p-Isopropyltoluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Propionitrile | NELAP | 48.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| sec-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Styrene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| tert-Amyl methyl ether | | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| tert-Butyl alcohol | NELAP | 48.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| tert-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Tetrachloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Tetrahydrofuran | NELAP | 48.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Toluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| TPH - GRO (C6 - C10) | | 482 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Trichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Trichlorofluoromethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Vinyl acetate | NELAP | 48.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Xylenes, Total | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **105.6** | %REC | 1 | 01/13/2016 15:30 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **96.2** | %REC | 1 | 01/13/2016 15:30 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **96.4** | %REC | 1 | 01/13/2016 15:30 | 115581 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-006
**Client Sample ID:** SCI-49A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 9:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.1** | % | 1 | 01/14/2016 16:09 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **13.1** | mg/Kg-dry | 1 | 01/14/2016 11:23 | 115589 |
| Barium | NELAP | 0.24 | | **201** | mg/Kg-dry | 1 | 01/14/2016 11:23 | 115589 |
| Cadmium | NELAP | 0.19 | | **0.20** | mg/Kg-dry | 1 | 01/14/2016 11:23 | 115589 |
| Chromium | NELAP | 0.48 | | **26.6** | mg/Kg-dry | 1 | 01/14/2016 11:23 | 115589 |
| Lead | NELAP | 1.44 | | **16.9** | mg/Kg-dry | 1 | 01/14/2016 11:23 | 115589 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/14/2016 11:23 | 115589 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/14/2016 11:23 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.030** | mg/Kg-dry | 1 | 01/14/2016 10:19 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Anthracene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Chrysene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Fluoranthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Fluorene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Pyrene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| TPH-DRO (C10 - C21) | | 15.1 | J | **8.6** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| TPH-ORO (C21 - C35) | | 15.1 | J | **8.1** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.5** | %REC | 1 | 01/13/2016 21:05 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **67.8** | %REC | 1 | 01/13/2016 21:05 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **78.1** | %REC | 1 | 01/13/2016 21:05 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,1-Dichloro-2-propanone | | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-006
**Client Sample ID:** SCI-49A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 9:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 2-Butanone | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 2-Hexanone | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 2-Nitropropane | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Acetone | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Acetonitrile | NELAP | 94.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Acrolein | NELAP | 94.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Acrylonitrile | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Bromomethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Chloroethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Chloromethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Cyclohexanone | | 94.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Iodomethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Methacrylonitrile | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-006
**Client Sample ID:** SCI-49A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 9:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Methylacrylate | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Methylene chloride | NELAP | 4.7 | J | **1.3** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Naphthalene | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| n-Heptane | | 19.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| n-Hexane | | 19.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Nitrobenzene | NELAP | 94.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Propionitrile | NELAP | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| tert-Butyl alcohol | NELAP | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Tetrahydrofuran | NELAP | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| TPH - GRO (C6 - C10) | | 474 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Vinyl acetate | NELAP | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **99.0** | %REC | 1 | 01/13/2016 15:56 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.0** | %REC | 1 | 01/13/2016 15:56 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **98.7** | %REC | 1 | 01/13/2016 15:56 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-007
**Client Sample ID:** SCI-49B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 10:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.6** | % | 1 | 01/14/2016 16:09 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **9.74** | mg/Kg-dry | 1 | 01/14/2016 11:26 | 115589 |
| Barium | NELAP | 0.25 | | **128** | mg/Kg-dry | 1 | 01/14/2016 11:26 | 115589 |
| Cadmium | NELAP | 0.20 | | **0.48** | mg/Kg-dry | 1 | 01/14/2016 11:26 | 115589 |
| Chromium | NELAP | 0.50 | | **40.0** | mg/Kg-dry | 1 | 01/14/2016 11:26 | 115589 |
| Lead | NELAP | 1.50 | | **16.8** | mg/Kg-dry | 1 | 01/14/2016 11:26 | 115589 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/14/2016 11:26 | 115589 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/14/2016 11:26 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.054** | mg/Kg-dry | 1 | 01/14/2016 10:27 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Anthracene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Chrysene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Fluoranthene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Fluorene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Pyrene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| TPH-DRO (C10 - C21) | | 15.2 | J | **8.3** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| TPH-ORO (C21 - C35) | | 15.2 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **70.7** | %REC | 1 | 01/13/2016 21:35 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.0** | %REC | 1 | 01/13/2016 21:35 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **83.6** | %REC | 1 | 01/13/2016 21:35 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,1-Dichloro-2-propanone | | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-007 **Client Sample ID:** SCI-49B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 10:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 2-Butanone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 2-Hexanone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 2-Nitropropane | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Acetone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Acetonitrile | NELAP | 91.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Acrolein | NELAP | 91.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Cyclohexanone | | 91.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Iodomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Methacrylonitrile | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-007
**Client Sample ID:** SCI-49B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 10:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Methylene chloride | NELAP | 4.6 | J | **1.1** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| n-Heptane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| n-Hexane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Nitrobenzene | NELAP | 91.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Propionitrile | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| tert-Butyl alcohol | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Tetrahydrofuran | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| TPH - GRO (C6 - C10) | | 458 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Vinyl acetate | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **102.6** | %REC | 1 | 01/13/2016 16:22 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.1** | %REC | 1 | 01/13/2016 16:22 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **99.3** | %REC | 1 | 01/13/2016 16:22 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-008
**Client Sample ID:** SCI-50A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.8** | % | 1 | 01/14/2016 16:09 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **10.9** | mg/Kg-dry | 1 | 01/14/2016 11:30 | 115589 |
| Barium | NELAP | 0.25 | | **180** | mg/Kg-dry | 1 | 01/14/2016 11:30 | 115589 |
| Cadmium | NELAP | 0.20 | J | **0.11** | mg/Kg-dry | 1 | 01/14/2016 11:30 | 115589 |
| Chromium | NELAP | 0.50 | | **21.1** | mg/Kg-dry | 1 | 01/14/2016 11:30 | 115589 |
| Lead | NELAP | 1.50 | | **15.4** | mg/Kg-dry | 1 | 01/14/2016 11:30 | 115589 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/14/2016 11:30 | 115589 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/14/2016 11:30 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.023** | mg/Kg-dry | 1 | 01/14/2016 10:30 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Chrysene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Fluorene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Pyrene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| TPH-DRO (C10 - C21) | | 15.0 | J | **8.6** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| TPH-ORO (C21 - C35) | | 15.0 | J | **7.9** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **80.8** | %REC | 1 | 01/13/2016 22:05 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **74.4** | %REC | 1 | 01/13/2016 22:05 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **94.6** | %REC | 1 | 01/13/2016 22:05 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,1-Dichloro-2-propanone | | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-008 **Client Sample ID:** SCI-50A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 2-Butanone | NELAP | 47.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 2-Hexanone | NELAP | 47.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 2-Nitropropane | NELAP | 47.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 47.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Acetone | NELAP | 47.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Acetonitrile | NELAP | 93.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Acrolein | NELAP | 93.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Acrylonitrile | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Bromomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Chloroethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Chloromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Cyclohexanone | | 93.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Iodomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Methacrylonitrile | NELAP | 47.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-008
**Client Sample ID:** SCI-50A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Methylacrylate | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Methylene chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Naphthalene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| n-Heptane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| n-Hexane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Nitrobenzene | NELAP | 93.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Propionitrile | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| tert-Butyl alcohol | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Tetrahydrofuran | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| TPH - GRO (C6 - C10) | | 470 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Vinyl acetate | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **110.2** | %REC | 1 | 01/13/2016 16:48 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.2** | %REC | 1 | 01/13/2016 16:48 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **96.8** | %REC | 1 | 01/13/2016 16:48 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-009
**Client Sample ID:** SCI-50B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.4** | % | 1 | 01/14/2016 16:10 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **6.04** | mg/Kg-dry | 1 | 01/14/2016 11:34 | 115589 |
| Barium | NELAP | 0.23 | | **136** | mg/Kg-dry | 1 | 01/14/2016 11:34 | 115589 |
| Cadmium | NELAP | 0.19 | J | **0.18** | mg/Kg-dry | 1 | 01/14/2016 11:34 | 115589 |
| Chromium | NELAP | 0.46 | | **19.8** | mg/Kg-dry | 1 | 01/14/2016 11:34 | 115589 |
| Lead | NELAP | 1.39 | | **9.22** | mg/Kg-dry | 1 | 01/14/2016 11:34 | 115589 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 01/14/2016 11:34 | 115589 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/14/2016 11:34 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.032** | mg/Kg-dry | 1 | 01/14/2016 10:32 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Anthracene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Chrysene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Fluoranthene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Fluorene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Pyrene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| TPH-DRO (C10 - C21) | | 14.6 | J | **7.7** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| TPH-ORO (C21 - C35) | | 14.6 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **67.6** | %REC | 1 | 01/13/2016 22:34 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **63.9** | %REC | 1 | 01/13/2016 22:34 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **81.9** | %REC | 1 | 01/13/2016 22:34 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,1-Dichloro-2-propanone | | 45.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-009 **Client Sample ID:** SCI-50B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 2-Butanone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 2-Hexanone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 2-Nitropropane | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Acetone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Acetonitrile | NELAP | 90.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Acrolein | NELAP | 90.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Acrylonitrile | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Bromomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Chloroethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Chloromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Cyclohexanone | | 90.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Iodomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Methacrylonitrile | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-009
**Client Sample ID:** SCI-50B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Methylacrylate | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Naphthalene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| n-Heptane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| n-Hexane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Nitrobenzene | NELAP | 90.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Propionitrile | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| tert-Butyl alcohol | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Tetrahydrofuran | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| TPH - GRO (C6 - C10) | | 453 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Vinyl acetate | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **109.0** | %REC | 1 | 01/13/2016 17:14 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.3** | %REC | 1 | 01/13/2016 17:14 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **96.9** | %REC | 1 | 01/13/2016 17:14 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-010 **Client Sample ID:** SCI-51A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 10:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **12.3** | % | 1 | 01/14/2016 16:10 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **9.30** | mg/Kg-dry | 1 | 01/14/2016 11:37 | 115589 |
| Barium | NELAP | 0.24 | | **132** | mg/Kg-dry | 1 | 01/14/2016 11:37 | 115589 |
| Cadmium | NELAP | 0.19 | | **0.21** | mg/Kg-dry | 1 | 01/14/2016 11:37 | 115589 |
| Chromium | NELAP | 0.47 | | **19.3** | mg/Kg-dry | 1 | 01/14/2016 11:37 | 115589 |
| Lead | NELAP | 1.42 | | **37.7** | mg/Kg-dry | 1 | 01/14/2016 11:37 | 115589 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/14/2016 11:37 | 115589 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/14/2016 11:37 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.137** | mg/Kg-dry | 1 | 01/14/2016 10:34 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0387 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Anthracene | NELAP | 0.0387 | J | **0.038** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0387 | | **0.205** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0387 | | **0.178** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0387 | | **0.228** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0387 | | **0.0941** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Chrysene | NELAP | 0.0387 | | **0.177** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0387 | J | **0.026** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Fluoranthene | NELAP | 0.0387 | | **0.393** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Fluorene | NELAP | 0.0387 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Pyrene | NELAP | 0.0387 | | **0.342** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| TPH-DRO (C10 - C21) | | 13.7 | J | **8.5** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| TPH-ORO (C21 - C35) | | 13.7 | | **14.7** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **61.5** | %REC | 1 | 01/13/2016 23:04 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **57.2** | %REC | 1 | 01/13/2016 23:04 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **74.1** | %REC | 1 | 01/13/2016 23:04 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,1-Dichloro-2-propanone | | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-010
**Client Sample ID:** SCI-51A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 10:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 2-Butanone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 2-Hexanone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 2-Nitropropane | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Acetone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Acetonitrile | NELAP | 91.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Acrolein | NELAP | 91.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Cyclohexanone | | 91.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Iodomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Methacrylonitrile | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-010
**Client Sample ID:** SCI-51A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 10:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Methylene chloride | NELAP | 4.6 | J | **1.4** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| n-Heptane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| n-Hexane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Nitrobenzene | NELAP | 91.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Propionitrile | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| tert-Butyl alcohol | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Tetrahydrofuran | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| TPH - GRO (C6 - C10) | | 458 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Vinyl acetate | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.0** | %REC | 1 | 01/13/2016 17:40 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **111.2** | %REC | 1 | 01/13/2016 17:40 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **104.8** | %REC | 1 | 01/13/2016 17:40 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-011
**Client Sample ID:** SCI-51B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 11:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.8** | % | 1 | 01/14/2016 16:11 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **4.90** | mg/Kg-dry | 1 | 01/14/2016 11:41 | 115589 |
| Barium | NELAP | 0.23 | | **71.8** | mg/Kg-dry | 1 | 01/14/2016 11:41 | 115589 |
| Cadmium | NELAP | 0.19 | J | **0.16** | mg/Kg-dry | 1 | 01/14/2016 11:41 | 115589 |
| Chromium | NELAP | 0.46 | | **17.4** | mg/Kg-dry | 1 | 01/14/2016 11:41 | 115589 |
| Lead | NELAP | 1.39 | | **9.92** | mg/Kg-dry | 1 | 01/14/2016 11:41 | 115589 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 01/14/2016 11:41 | 115589 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/14/2016 11:41 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.029** | mg/Kg-dry | 1 | 01/14/2016 10:37 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Anthracene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Chrysene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Fluoranthene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Fluorene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Pyrene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| TPH-DRO (C10 - C21) | | 14.5 | J | **7.8** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| TPH-ORO (C21 - C35) | | 14.5 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **69.2** | %REC | 1 | 01/13/2016 23:34 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **65.8** | %REC | 1 | 01/13/2016 23:34 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **79.8** | %REC | 1 | 01/13/2016 23:34 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,1-Dichloro-2-propanone | | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-011 **Client Sample ID:** SCI-51B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 11:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 2-Butanone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 2-Hexanone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 2-Nitropropane | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Acetone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Acetonitrile | NELAP | 88.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Acrolein | NELAP | 88.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Acrylonitrile | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Bromomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Chloroethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Chloromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Cyclohexanone | | 88.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Dichlorodifluoromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Iodomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Methacrylonitrile | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-011
**Client Sample ID:** SCI-51B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 11:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Methylacrylate | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Naphthalene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| n-Heptane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| n-Hexane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Nitrobenzene | NELAP | 88.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Propionitrile | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| tert-Butyl alcohol | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Tetrahydrofuran | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| TPH - GRO (C6 - C10) | | 440 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Vinyl acetate | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **110.5** | %REC | 1 | 01/13/2016 18:07 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.0** | %REC | 1 | 01/13/2016 18:07 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **97.2** | %REC | 1 | 01/13/2016 18:07 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-012 **Client Sample ID:** SCI-52A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.4** | % | 1 | 01/14/2016 16:13 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **6.15** | mg/Kg-dry | 1 | 01/14/2016 11:45 | 115589 |
| Barium | NELAP | 0.25 | | **137** | mg/Kg-dry | 1 | 01/14/2016 11:45 | 115589 |
| Cadmium | NELAP | 0.20 | | **0.38** | mg/Kg-dry | 1 | 01/14/2016 11:45 | 115589 |
| Chromium | NELAP | 0.50 | | **15.4** | mg/Kg-dry | 1 | 01/14/2016 11:45 | 115589 |
| Lead | NELAP | 1.50 | | **51.4** | mg/Kg-dry | 1 | 01/14/2016 11:45 | 115589 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/14/2016 11:45 | 115589 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/14/2016 11:45 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.064** | mg/Kg-dry | 1 | 01/14/2016 10:39 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.202 | | **2.78** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Anthracene | NELAP | 0.202 | | **5.48** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Benzo(a)anthracene | NELAP | 0.202 | | **13.3** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Benzo(a)pyrene | NELAP | 0.202 | | **11.4** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.202 | | **15.4** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.202 | | **4.58** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Chrysene | NELAP | 0.202 | | **11.2** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.202 | | **1.06** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Fluoranthene | NELAP | 0.202 | | **29.3** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Fluorene | NELAP | 0.202 | | **2.28** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Pyrene | NELAP | 0.202 | | **29.2** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| TPH-DRO (C10 - C21) | | 71.3 | | **144** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| TPH-ORO (C21 - C35) | | 71.3 | | **313** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **58.8** | %REC | 5 | 01/14/2016 17:39 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **53.4** | %REC | 5 | 01/14/2016 17:39 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **75.6** | %REC | 5 | 01/14/2016 17:39 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,1-Dichloro-2-propanone | | 43.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-012 **Client Sample ID:** SCI-52A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 2-Butanone | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 2-Hexanone | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 2-Nitropropane | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Acetone | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Acetonitrile | NELAP | 87.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Acrolein | NELAP | 87.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Acrylonitrile | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Bromomethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Chloroethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Chloromethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Cyclohexanone | | 87.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Dichlorodifluoromethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Iodomethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Methacrylonitrile | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-012
**Client Sample ID:** SCI-52A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Methylacrylate | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Methylene chloride | NELAP | 4.4 | J | **1.0** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Naphthalene | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| n-Heptane | | 17.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| n-Hexane | | 17.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Nitrobenzene | NELAP | 87.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Propionitrile | NELAP | 43.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| tert-Butyl alcohol | NELAP | 43.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Tetrahydrofuran | NELAP | 43.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| TPH - GRO (C6 - C10) | | 436 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Vinyl acetate | NELAP | 43.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.8** | %REC | 1 | 01/13/2016 18:33 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.8** | %REC | 1 | 01/13/2016 18:33 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **97.5** | %REC | 1 | 01/13/2016 18:33 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-013
**Client Sample ID:** SCI-52B (10-15)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.0** | % | 1 | 01/14/2016 16:16 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **4.89** | mg/Kg-dry | 1 | 01/14/2016 11:48 | 115589 |
| Barium | NELAP | 0.24 | | **96.4** | mg/Kg-dry | 1 | 01/14/2016 11:48 | 115589 |
| Cadmium | NELAP | 0.19 | | **0.19** | mg/Kg-dry | 1 | 01/14/2016 13:17 | 115589 |
| Chromium | NELAP | 0.48 | | **20.1** | mg/Kg-dry | 1 | 01/14/2016 11:48 | 115589 |
| Lead | NELAP | 1.44 | | **9.14** | mg/Kg-dry | 1 | 01/14/2016 11:48 | 115589 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/14/2016 11:48 | 115589 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/14/2016 11:48 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.028** | mg/Kg-dry | 1 | 01/14/2016 10:42 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Chrysene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Fluorene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| TPH-DRO (C10 - C21) | | 14.9 | J | **8.0** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| TPH-ORO (C21 - C35) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **70.4** | %REC | 1 | 01/14/2016 1:03 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.1** | %REC | 1 | 01/14/2016 1:03 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **81.5** | %REC | 1 | 01/14/2016 1:03 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,1-Dichloro-2-propanone | | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-013 **Client Sample ID:** SCI-52B (10-15)

**Matrix:** SOLID **Collection Date:** 01/12/2016 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 2-Butanone | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 2-Hexanone | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 2-Nitropropane | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Acetone | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Acetonitrile | NELAP | 92.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Acrolein | NELAP | 92.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Acrylonitrile | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Bromomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Chloroethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Chloromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Cyclohexanone | | 92.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Iodomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Methacrylonitrile | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-013
**Client Sample ID:** SCI-52B (10-15)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Methylacrylate | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Naphthalene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| n-Heptane | | 18.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| n-Hexane | | 18.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Nitrobenzene | NELAP | 92.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Propionitrile | NELAP | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| tert-Butyl alcohol | NELAP | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Tetrahydrofuran | NELAP | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| TPH - GRO (C6 - C10) | | 464 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Vinyl acetate | NELAP | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.6** | %REC | 1 | 01/13/2016 18:59 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.4** | %REC | 1 | 01/13/2016 18:59 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **97.5** | %REC | 1 | 01/13/2016 18:59 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-014 **Client Sample ID:** SCI-53A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 12:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **23.6** | % | 1 | 01/14/2016 16:16 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **7.70** | mg/Kg-dry | 1 | 01/14/2016 11:52 | 115589 |
| Barium | NELAP | 0.25 | | **192** | mg/Kg-dry | 1 | 01/14/2016 11:52 | 115589 |
| Cadmium | NELAP | 0.20 | | **0.20** | mg/Kg-dry | 1 | 01/14/2016 11:52 | 115589 |
| Chromium | NELAP | 0.50 | | **18.3** | mg/Kg-dry | 1 | 01/14/2016 11:52 | 115589 |
| Lead | NELAP | 1.50 | | **10.7** | mg/Kg-dry | 1 | 01/14/2016 11:52 | 115589 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/14/2016 11:52 | 115589 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/14/2016 11:52 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.031** | mg/Kg-dry | 1 | 01/14/2016 10:49 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Anthracene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Chrysene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Fluoranthene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Fluorene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Pyrene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| TPH-DRO (C10 - C21) | | 15.6 | J | **8.3** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| TPH-ORO (C21 - C35) | | 15.6 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **67.2** | %REC | 1 | 01/14/2016 11:43 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.7** | %REC | 1 | 01/14/2016 11:43 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **82.6** | %REC | 1 | 01/14/2016 11:43 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,1-Dichloro-2-propanone | | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-014 **Client Sample ID:** SCI-53A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 12:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1-Chlorobutane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 2-Butanone | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 2-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 2-Hexanone | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 2-Nitropropane | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 4-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Acetone | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Acetonitrile | NELAP | 98.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Acrolein | NELAP | 98.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Acrylonitrile | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Allyl chloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Bromobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Bromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Bromodichloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Bromoform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Bromomethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Carbon disulfide | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Carbon tetrachloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Chlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Chloroethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Chloroform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Chloromethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Cyclohexanone | | 98.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Dibromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Dibromomethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Diisopropyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Ethyl ether | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Ethyl methacrylate | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Ethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Ethyl-tert-butyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Hexachlorobutadiene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Hexachloroethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Iodomethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Isopropylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| m,p-Xylenes | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Methacrylonitrile | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-014 **Client Sample ID:** SCI-53A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 12:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Methylacrylate | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Methylene chloride | NELAP | 4.9 | J | **1.4** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Naphthalene | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| n-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| n-Heptane | | 19.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| n-Hexane | | 19.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Nitrobenzene | NELAP | 98.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| n-Propylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| o-Xylene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Pentachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| p-Isopropyltoluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Propionitrile | NELAP | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| sec-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Styrene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| tert-Amyl methyl ether | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| tert-Butyl alcohol | NELAP | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| tert-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Tetrachloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Tetrahydrofuran | NELAP | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Toluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| TPH - GRO (C6 - C10) | | 492 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Trichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Trichlorofluoromethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Vinyl acetate | NELAP | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Xylenes, Total | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **97.4** | %REC | 1 | 01/13/2016 19:25 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.7** | %REC | 1 | 01/13/2016 19:25 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **99.4** | %REC | 1 | 01/13/2016 19:25 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-015
**Client Sample ID:** SCI-53B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 12:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.1** | % | 1 | 01/14/2016 16:18 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **9.63** | mg/Kg-dry | 1 | 01/14/2016 12:03 | 115589 |
| Barium | NELAP | 0.25 | | **83.2** | mg/Kg-dry | 1 | 01/14/2016 12:03 | 115589 |
| Cadmium | NELAP | 0.20 | | **0.23** | mg/Kg-dry | 1 | 01/14/2016 12:03 | 115589 |
| Chromium | NELAP | 0.50 | | **60.3** | mg/Kg-dry | 1 | 01/14/2016 12:03 | 115589 |
| Lead | NELAP | 1.50 | | **13.1** | mg/Kg-dry | 1 | 01/14/2016 12:03 | 115589 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/14/2016 12:03 | 115589 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/14/2016 12:03 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.051** | mg/Kg-dry | 1 | 01/14/2016 10:56 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Chrysene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Fluorene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Pyrene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| TPH-DRO (C10 - C21) | | 15.0 | J | **8.1** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| TPH-ORO (C21 - C35) | | 15.0 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **70.5** | %REC | 1 | 01/14/2016 12:13 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.9** | %REC | 1 | 01/14/2016 12:13 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **82.4** | %REC | 1 | 01/14/2016 12:13 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,1-Dichloro-2-propanone | | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-015 **Client Sample ID:** SCI-53B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 12:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1-Chlorobutane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 2-Butanone | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 2-Chlorotoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 2-Hexanone | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 2-Nitropropane | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 4-Chlorotoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Acetone | NELAP | 45.1 | J | **9.3** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Acetonitrile | NELAP | 90.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Acrolein | NELAP | 90.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Acrylonitrile | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Allyl chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Benzene | NELAP | 0.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Bromobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Bromochloromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Bromodichloromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Bromoform | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Bromomethane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Carbon disulfide | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Carbon tetrachloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Chlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Chloroethane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Chloroform | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Chloromethane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Cyclohexanone | | 90.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Dibromochloromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Dibromomethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Diisopropyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Ethyl ether | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Ethyl methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Ethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Ethyl-tert-butyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Hexachlorobutadiene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Hexachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Iodomethane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Isopropylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| m,p-Xylenes | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Methacrylonitrile | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-015
**Client Sample ID:** SCI-53B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 12:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Methylacrylate | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Methylene chloride | NELAP | 4.5 | J | **1.4** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Naphthalene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| n-Heptane | | 18.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| n-Hexane | | 18.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Nitrobenzene | NELAP | 90.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Propionitrile | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| tert-Butyl alcohol | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Tetrahydrofuran | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| TPH - GRO (C6 - C10) | | 451 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Vinyl acetate | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **99.1** | %REC | 1 | 01/13/2016 19:51 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.3** | %REC | 1 | 01/13/2016 19:51 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **98.0** | %REC | 1 | 01/13/2016 19:51 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-016
**Client Sample ID:** SCI-54A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 12:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.9** | % | 1 | 01/14/2016 16:20 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **7.68** | mg/Kg-dry | 1 | 01/14/2016 12:07 | 115589 |
| Barium | NELAP | 0.25 | | **171** | mg/Kg-dry | 1 | 01/14/2016 12:07 | 115589 |
| Cadmium | NELAP | 0.20 | | **0.62** | mg/Kg-dry | 1 | 01/14/2016 12:07 | 115589 |
| Chromium | NELAP | 0.49 | | **17.7** | mg/Kg-dry | 1 | 01/14/2016 12:07 | 115589 |
| Lead | NELAP | 1.47 | | **108** | mg/Kg-dry | 1 | 01/14/2016 12:07 | 115589 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 01/14/2016 12:07 | 115589 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 01/14/2016 12:07 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.088** | mg/Kg-dry | 1 | 01/14/2016 10:59 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.205 | | **0.727** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Anthracene | NELAP | 0.205 | | **1.48** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Benzo(a)anthracene | NELAP | 0.205 | | **3.85** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Benzo(a)pyrene | NELAP | 0.205 | | **3.52** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.205 | | **5.15** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.205 | | **1.49** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Chrysene | NELAP | 0.205 | | **3.54** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.205 | | **0.296** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Fluoranthene | NELAP | 0.205 | | **8.99** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Fluorene | NELAP | 0.205 | | **0.577** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Pyrene | NELAP | 0.205 | | **7.96** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| TPH-DRO (C10 - C21) | | 72.5 | J | **58** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| TPH-ORO (C21 - C35) | | 72.5 | | **118** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **62.1** | %REC | 5 | 01/14/2016 18:09 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **57.4** | %REC | 5 | 01/14/2016 18:09 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **75.3** | %REC | 5 | 01/14/2016 18:09 | 115583 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,1-Dichloro-2-propanone | | 42.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-016
**Client Sample ID:** SCI-54A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 12:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1-Chlorobutane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 2-Butanone | NELAP | 42.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 2-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 2-Hexanone | NELAP | 42.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 2-Nitropropane | NELAP | 42.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 4-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 42.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Acetone | NELAP | 42.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Acetonitrile | NELAP | 84.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Acrolein | NELAP | 84.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Acrylonitrile | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Allyl chloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Bromobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Bromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Bromodichloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Bromoform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Bromomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Carbon disulfide | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Carbon tetrachloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Chlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Chloroethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Chloroform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Chloromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Cyclohexanone | | 84.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Dibromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Dibromomethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Dichlorodifluoromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Diisopropyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Ethyl ether | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Ethyl methacrylate | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Ethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Ethyl-tert-butyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Hexachlorobutadiene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Hexachloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Iodomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Isopropylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| m,p-Xylenes | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-016 **Client Sample ID:** SCI-54A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 12:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 42.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Methyl Methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Methylacrylate | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Methylene chloride | NELAP | 4.2 | J | **1.0** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Naphthalene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| n-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| n-Heptane | | 17.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| n-Hexane | | 17.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Nitrobenzene | NELAP | 84.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| n-Propylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| o-Xylene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Pentachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| p-Isopropyltoluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Propionitrile | NELAP | 42.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| sec-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Styrene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| tert-Amyl methyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| tert-Butyl alcohol | NELAP | 42.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| tert-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Tetrachloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Tetrahydrofuran | NELAP | 42.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Toluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| TPH - GRO (C6 - C10) | | 425 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Trichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Trichlorofluoromethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Vinyl acetate | NELAP | 42.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Xylenes, Total | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **98.7** | %REC | 1 | 01/14/2016 13:04 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.9** | %REC | 1 | 01/14/2016 13:04 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **99.5** | %REC | 1 | 01/14/2016 13:04 | 115619 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-017
**Client Sample ID:** SCI-54B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 13:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.9** | % | 1 | 01/14/2016 16:20 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **5.75** | mg/Kg-dry | 1 | 01/14/2016 12:11 | 115589 |
| Barium | NELAP | 0.24 | | **111** | mg/Kg-dry | 1 | 01/14/2016 12:11 | 115589 |
| Cadmium | NELAP | 0.19 | | **0.29** | mg/Kg-dry | 1 | 01/14/2016 12:11 | 115589 |
| Chromium | NELAP | 0.47 | | **23.4** | mg/Kg-dry | 1 | 01/14/2016 12:11 | 115589 |
| Lead | NELAP | 1.42 | | **12.7** | mg/Kg-dry | 1 | 01/14/2016 12:11 | 115589 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/14/2016 12:11 | 115589 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/14/2016 12:11 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.031** | mg/Kg-dry | 1 | 01/14/2016 11:01 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Chrysene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Fluorene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| TPH-DRO (C10 - C21) | | 14.9 | J | **7.7** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| TPH-ORO (C21 - C35) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **66.0** | %REC | 1 | 01/14/2016 12:43 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **61.5** | %REC | 1 | 01/14/2016 12:43 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **80.9** | %REC | 1 | 01/14/2016 12:43 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,1-Dichloro-2-propanone | | 47.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-017 **Client Sample ID:** SCI-54B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 13:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 2-Butanone | NELAP | 47.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 2-Hexanone | NELAP | 47.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 2-Nitropropane | NELAP | 47.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 47.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Acetone | NELAP | 47.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Acetonitrile | NELAP | 94.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Acrolein | NELAP | 94.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Acrylonitrile | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Bromomethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Chloroethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Chloromethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Cyclohexanone | | 94.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Dichlorodifluoromethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Iodomethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Methacrylonitrile | NELAP | 47.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-017
**Client Sample ID:** SCI-54B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 13:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Methylacrylate | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Methylene chloride | NELAP | 4.7 | J | **1.1** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Naphthalene | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| n-Heptane | | 19.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| n-Hexane | | 19.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Nitrobenzene | NELAP | 94.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Propionitrile | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| tert-Butyl alcohol | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Tetrahydrofuran | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| TPH - GRO (C6 - C10) | | 475 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Vinyl acetate | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **95.3** | %REC | 1 | 01/14/2016 13:30 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.1** | %REC | 1 | 01/14/2016 13:30 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **98.5** | %REC | 1 | 01/14/2016 13:30 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-018
**Client Sample ID:** SCI-55A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **15.6** | % | 1 | 01/14/2016 16:21 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **7.08** | mg/Kg-dry | 1 | 01/14/2016 12:15 | 115589 |
| Barium | NELAP | 0.25 | | **122** | mg/Kg-dry | 1 | 01/14/2016 12:15 | 115589 |
| Cadmium | NELAP | 0.20 | J | **0.08** | mg/Kg-dry | 1 | 01/14/2016 12:15 | 115589 |
| Chromium | NELAP | 0.49 | | **13.4** | mg/Kg-dry | 1 | 01/14/2016 12:15 | 115589 |
| Lead | NELAP | 1.47 | | **13.6** | mg/Kg-dry | 1 | 01/14/2016 12:15 | 115589 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 01/14/2016 12:15 | 115589 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 01/14/2016 12:15 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.211** | mg/Kg-dry | 1 | 01/14/2016 11:04 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Anthracene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Chrysene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Fluoranthene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Fluorene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Pyrene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| TPH-DRO (C10 - C21) | | 14.1 | J | **7.2** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| TPH-ORO (C21 - C35) | | 14.1 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **62.4** | %REC | 1 | 01/14/2016 13:12 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **59.9** | %REC | 1 | 01/14/2016 13:12 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **79.6** | %REC | 1 | 01/14/2016 13:12 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,1-Dichloro-2-propanone | | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,2-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-018 **Client Sample ID:** SCI-55A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1-Chlorobutane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 2-Butanone | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 2-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 2-Hexanone | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 2-Nitropropane | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 4-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Acetone | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Acetonitrile | NELAP | 84.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Acrolein | NELAP | 84.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Acrylonitrile | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Allyl chloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Bromobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Bromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Bromodichloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Bromoform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Bromomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Carbon disulfide | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Carbon tetrachloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Chlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Chloroethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Chloroform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Chloromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Cyclohexanone | | 84.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Dibromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Dibromomethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Dichlorodifluoromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Diisopropyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Ethyl ether | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Ethyl methacrylate | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Ethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Ethyl-tert-butyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Hexachlorobutadiene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Hexachloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Iodomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Isopropylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| m,p-Xylenes | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Methacrylonitrile | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-018
**Client Sample ID:** SCI-55A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Methylacrylate | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Methylene chloride | NELAP | 4.2 | J | **1.3** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Naphthalene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| n-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| n-Heptane | | 16.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| n-Hexane | | 16.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Nitrobenzene | NELAP | 84.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| n-Propylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| o-Xylene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Pentachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| p-Isopropyltoluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Propionitrile | NELAP | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| sec-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Styrene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| tert-Amyl methyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| tert-Butyl alcohol | NELAP | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| tert-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Tetrachloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Tetrahydrofuran | NELAP | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Toluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| TPH - GRO (C6 - C10) | | 424 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Trichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Trichlorofluoromethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Vinyl acetate | NELAP | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Xylenes, Total | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.6** | %REC | 1 | 01/14/2016 13:56 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **104.3** | %REC | 1 | 01/14/2016 13:56 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **101.1** | %REC | 1 | 01/14/2016 13:56 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-019
**Client Sample ID:** SCI-55B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 13:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.9** | % | 1 | 01/14/2016 16:22 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **8.06** | mg/Kg-dry | 1 | 01/14/2016 12:29 | 115594 |
| Barium | NELAP | 0.24 | | **173** | mg/Kg-dry | 1 | 01/14/2016 12:29 | 115594 |
| Cadmium | NELAP | 0.19 | | **0.26** | mg/Kg-dry | 1 | 01/14/2016 12:29 | 115594 |
| Chromium | NELAP | 0.48 | | **18.9** | mg/Kg-dry | 1 | 01/14/2016 12:29 | 115594 |
| Lead | NELAP | 1.44 | | **12.3** | mg/Kg-dry | 1 | 01/14/2016 12:29 | 115594 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/14/2016 12:29 | 115594 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/14/2016 12:29 | 115594 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.036** | mg/Kg-dry | 1 | 01/14/2016 11:06 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Chrysene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Fluorene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Pyrene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| TPH-DRO (C10 - C21) | | 15.1 | J | **7.8** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| TPH-ORO (C21 - C35) | | 15.1 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **67.5** | %REC | 1 | 01/14/2016 13:42 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **62.8** | %REC | 1 | 01/14/2016 13:42 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **83.1** | %REC | 1 | 01/14/2016 13:42 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,1-Dichloro-2-propanone | | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-019 **Client Sample ID:** SCI-55B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 13:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 2-Butanone | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 2-Hexanone | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 2-Nitropropane | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Acetone | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Acetonitrile | NELAP | 92.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Acrolein | NELAP | 92.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Acrylonitrile | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Bromomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Chloroethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Chloromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Cyclohexanone | | 92.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Dichlorodifluoromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Iodomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Methacrylonitrile | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-019
**Client Sample ID:** SCI-55B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 13:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Methylacrylate | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Methylene chloride | NELAP | 4.6 | J | **1.4** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Naphthalene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| n-Heptane | | 18.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| n-Hexane | | 18.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Nitrobenzene | NELAP | 92.8 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Propionitrile | NELAP | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| tert-Butyl alcohol | NELAP | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Tetrahydrofuran | NELAP | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| TPH - GRO (C6 - C10) | | 464 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Vinyl acetate | NELAP | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.6** | %REC | 1 | 01/14/2016 14:22 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.0** | %REC | 1 | 01/14/2016 14:22 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **98.4** | %REC | 1 | 01/14/2016 14:22 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-020 **Client Sample ID:** SCI-57A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **23.9** | % | 1 | 01/14/2016 16:22 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **9.20** | mg/Kg-dry | 1 | 01/14/2016 12:33 | 115594 |
| Barium | NELAP | 0.24 | | **189** | mg/Kg-dry | 1 | 01/14/2016 12:33 | 115594 |
| Cadmium | NELAP | 0.19 | | **0.62** | mg/Kg-dry | 1 | 01/14/2016 12:33 | 115594 |
| Chromium | NELAP | 0.47 | | **21.4** | mg/Kg-dry | 1 | 01/14/2016 12:33 | 115594 |
| Lead | NELAP | 1.42 | | **195** | mg/Kg-dry | 1 | 01/14/2016 12:33 | 115594 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/14/2016 12:33 | 115594 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/14/2016 12:33 | 115594 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.425** | mg/Kg-dry | 1 | 01/14/2016 11:09 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.222 | | **0.251** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Anthracene | NELAP | 0.222 | | **0.640** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Benzo(a)anthracene | NELAP | 0.222 | | **2.02** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Benzo(a)pyrene | NELAP | 0.222 | | **1.76** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.222 | | **2.17** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.222 | | **0.880** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Chrysene | NELAP | 0.222 | | **1.83** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.222 | | **0.227** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Fluoranthene | NELAP | 0.222 | | **4.23** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Fluorene | NELAP | 0.222 | J | **0.18** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Pyrene | NELAP | 0.222 | | **3.83** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| TPH-DRO (C10 - C21) | | 78.2 | J | **46** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| TPH-ORO (C21 - C35) | | 78.2 | J | **77** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **61.5** | %REC | 5 | 01/14/2016 16:40 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **59.1** | %REC | 5 | 01/14/2016 16:40 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **77.7** | %REC | 5 | 01/14/2016 16:40 | 115583 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,1-Dichloro-2-propanone | | 51.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,1-Dichloroethane | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,1-Dichloroethene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,1-Dichloropropene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 10.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,2,3-Trimethylbenzene | | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,2-Dibromoethane | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-020
**Client Sample ID:** SCI-57A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,2-Dichloropropane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,3-Dichloropropane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1-Chlorobutane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 2,2-Dichloropropane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 2-Butanone | NELAP | 51.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 2-Chlorotoluene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 2-Hexanone | NELAP | 51.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 2-Nitropropane | NELAP | 51.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 4-Chlorotoluene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 51.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Acetone | NELAP | 51.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Acetonitrile | NELAP | 102 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Acrolein | NELAP | 102 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Acrylonitrile | NELAP | 10.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Allyl chloride | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Bromobenzene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Bromochloromethane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Bromodichloromethane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Bromoform | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Bromomethane | NELAP | 10.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Carbon disulfide | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Carbon tetrachloride | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Chlorobenzene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Chloroethane | NELAP | 10.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Chloroform | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Chloromethane | NELAP | 10.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Cyclohexanone | | 102 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Dibromochloromethane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Dibromomethane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Dichlorodifluoromethane | NELAP | 10.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Diisopropyl ether | | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Ethyl ether | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Ethyl methacrylate | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Ethylbenzene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Ethyl-tert-butyl ether | | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Hexachlorobutadiene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Hexachloroethane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Iodomethane | NELAP | 10.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Isopropylbenzene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| m,p-Xylenes | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-020 **Client Sample ID:** SCI-57A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 51.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Methyl Methacrylate | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Methylacrylate | NELAP | 10.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Methylene chloride | NELAP | 5.1 | J | **1.1** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Naphthalene | NELAP | 10.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| n-Butylbenzene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| n-Heptane | | 20.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| n-Hexane | | 20.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Nitrobenzene | NELAP | 102 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| n-Propylbenzene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| o-Xylene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Pentachloroethane | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| p-Isopropyltoluene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Propionitrile | NELAP | 51.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| sec-Butylbenzene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Styrene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| tert-Amyl methyl ether | | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| tert-Butyl alcohol | NELAP | 51.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| tert-Butylbenzene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Tetrachloroethene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Tetrahydrofuran | NELAP | 51.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Toluene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| TPH - GRO (C6 - C10) | | 510 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Trichloroethene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Trichlorofluoromethane | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Vinyl acetate | NELAP | 51.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Xylenes, Total | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.5** | %REC | 1 | 01/14/2016 14:48 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | S | **119.2** | %REC | 1 | 01/14/2016 14:48 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **106.8** | %REC | 1 | 01/14/2016 14:48 | 115619 |

*Surrogate recovery is outside QC limits due to matrix interference.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-021
**Client Sample ID:** SCI-57B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 14:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.9** | % | 1 | 01/14/2016 16:22 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **5.17** | mg/Kg-dry | 1 | 01/14/2016 12:37 | 115594 |
| Barium | NELAP | 0.24 | | **87.5** | mg/Kg-dry | 1 | 01/14/2016 12:37 | 115594 |
| Cadmium | NELAP | 0.19 | J | **0.16** | mg/Kg-dry | 1 | 01/14/2016 12:37 | 115594 |
| Chromium | NELAP | 0.48 | | **17.0** | mg/Kg-dry | 1 | 01/14/2016 12:37 | 115594 |
| Lead | NELAP | 1.44 | | **9.84** | mg/Kg-dry | 1 | 01/14/2016 12:37 | 115594 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/14/2016 12:37 | 115594 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/14/2016 12:37 | 115594 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.028** | mg/Kg-dry | 1 | 01/14/2016 11:16 | 115595 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Benzo(a)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Benzo(a)pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Chrysene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Fluorene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| TPH-DRO (C10 - C21) | | 14.9 | J | **7.6** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| TPH-ORO (C21 - C35) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **58.4** | %REC | 1 | 01/14/2016 14:12 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **54.8** | %REC | 1 | 01/14/2016 14:12 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **65.5** | %REC | 1 | 01/14/2016 14:12 | 115592 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,1-Dichloro-2-propanone | | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,2-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-021 **Client Sample ID:** SCI-57B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 14:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 2-Butanone | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 2-Hexanone | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 2-Nitropropane | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Acetone | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Acetonitrile | NELAP | 90.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Acrolein | NELAP | 90.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Acrylonitrile | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Bromomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Chloroethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Chloromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Cyclohexanone | | 90.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Dichlorodifluoromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Iodomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Methacrylonitrile | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-021
**Client Sample ID:** SCI-57B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 14:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Methylacrylate | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Methylene chloride | NELAP | 4.5 | J | **1.2** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Naphthalene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| n-Heptane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| n-Hexane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Nitrobenzene | NELAP | 90.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Propionitrile | NELAP | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| tert-Butyl alcohol | NELAP | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Tetrahydrofuran | NELAP | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| TPH - GRO (C6 - C10) | | 452 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Vinyl acetate | NELAP | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **94.5** | %REC | 1 | 01/14/2016 20:27 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.3** | %REC | 1 | 01/14/2016 20:27 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **98.3** | %REC | 1 | 01/14/2016 20:27 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-022 **Client Sample ID:** SCI-58A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 14:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **11.1** | % | 1 | 01/14/2016 16:23 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **13.9** | mg/Kg-dry | 1 | 01/14/2016 12:51 | 115594 |
| Barium | NELAP | 0.23 | | **96.4** | mg/Kg-dry | 1 | 01/14/2016 12:51 | 115594 |
| Cadmium | NELAP | 0.18 | | **2.05** | mg/Kg-dry | 1 | 01/14/2016 12:51 | 115594 |
| Chromium | NELAP | 0.45 | | **17.1** | mg/Kg-dry | 1 | 01/14/2016 12:51 | 115594 |
| Lead | NELAP | 1.36 | | **388** | mg/Kg-dry | 1 | 01/14/2016 12:51 | 115594 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 01/14/2016 12:51 | 115594 |
| Silver | NELAP | 0.45 | | **< 0.45** | mg/Kg-dry | 1 | 01/14/2016 12:51 | 115594 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.159** | mg/Kg-dry | 1 | 01/14/2016 11:18 | 115595 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 2.71 | | **ND** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Anthracene | NELAP | 2.71 | | **2.82** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Benzo(a)anthracene | NELAP | 2.71 | | **8.57** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Benzo(a)pyrene | NELAP | 2.71 | | **6.94** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Benzo(b)fluoranthene | NELAP | 2.71 | | **8.91** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Benzo(k)fluoranthene | NELAP | 2.71 | | **3.50** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Chrysene | NELAP | 2.71 | | **8.01** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 2.71 | | **ND** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Fluoranthene | NELAP | 2.71 | | **19.2** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Fluorene | NELAP | 2.71 | | **ND** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Pyrene | NELAP | 2.71 | | **16.9** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| TPH-DRO (C10 - C21) | | 955 | | **ND** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| TPH-ORO (C21 - C35) | | 955 | J | **540** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **68.3** | %REC | 5 | 01/14/2016 17:10 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **64.9** | %REC | 5 | 01/14/2016 17:10 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **80.0** | %REC | 5 | 01/14/2016 17:10 | 115592 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,1-Dichloro-2-propanone | | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-022 **Client Sample ID:** SCI-58A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 14:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1-Chlorobutane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 2-Butanone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 2-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 2-Hexanone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 2-Nitropropane | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 4-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Acetone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Acetonitrile | NELAP | 82.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Acrolein | NELAP | 82.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Acrylonitrile | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Allyl chloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Bromobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Bromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Bromodichloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Bromoform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Bromomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Carbon disulfide | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Carbon tetrachloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Chlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Chloroethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Chloroform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Chloromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Cyclohexanone | | 82.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Dibromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Dibromomethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Dichlorodifluoromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Diisopropyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Ethyl ether | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Ethyl methacrylate | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Ethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Ethyl-tert-butyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Hexachlorobutadiene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Hexachloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Iodomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Isopropylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| m,p-Xylenes | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-022 **Client Sample ID:** SCI-58A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 14:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Methyl Methacrylate | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Methylacrylate | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Methylene chloride | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Naphthalene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| n-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| n-Heptane | | 16.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| n-Hexane | | 16.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Nitrobenzene | NELAP | 82.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| n-Propylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| o-Xylene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Pentachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| p-Isopropyltoluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Propionitrile | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| sec-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Styrene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| tert-Amyl methyl ether | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| tert-Butyl alcohol | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| tert-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Tetrachloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Tetrahydrofuran | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Toluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| TPH - GRO (C6 - C10) | | 413 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Trichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Trichlorofluoromethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Vinyl acetate | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Xylenes, Total | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.1** | %REC | 1 | 01/14/2016 15:14 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **106.8** | %REC | 1 | 01/14/2016 15:14 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **100.3** | %REC | 1 | 01/14/2016 15:14 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-023
**Client Sample ID:** SCI-58B (10-15)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.0** | % | 1 | 01/14/2016 16:23 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **5.25** | mg/Kg-dry | 1 | 01/14/2016 12:55 | 115594 |
| Barium | NELAP | 0.24 | | **116** | mg/Kg-dry | 1 | 01/14/2016 12:55 | 115594 |
| Cadmium | NELAP | 0.19 | J | **0.17** | mg/Kg-dry | 1 | 01/14/2016 12:55 | 115594 |
| Chromium | NELAP | 0.47 | | **22.1** | mg/Kg-dry | 1 | 01/14/2016 12:55 | 115594 |
| Lead | NELAP | 1.42 | | **9.86** | mg/Kg-dry | 1 | 01/14/2016 12:55 | 115594 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/14/2016 12:55 | 115594 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/14/2016 12:55 | 115594 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.028** | mg/Kg-dry | 1 | 01/14/2016 11:26 | 115595 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Anthracene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Benzo(a)anthracene | NELAP | 0.0409 | J | **0.022** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Benzo(a)pyrene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Chrysene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Fluoranthene | NELAP | 0.0409 | J | **0.040** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Fluorene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Pyrene | NELAP | 0.0409 | J | **0.035** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| TPH-DRO (C10 - C21) | | 14.4 | J | **9.3** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| TPH-ORO (C21 - C35) | | 14.4 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **66.1** | %REC | 1 | 01/14/2016 14:41 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **63.0** | %REC | 1 | 01/14/2016 14:41 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **76.5** | %REC | 1 | 01/14/2016 14:41 | 115592 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,1-Dichloro-2-propanone | | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,2-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-023 **Client Sample ID:** SCI-58B (10-15)

**Matrix:** SOLID **Collection Date:** 01/12/2016 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1-Chlorobutane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 2-Butanone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 2-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 2-Hexanone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 2-Nitropropane | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 4-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Acetone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Acetonitrile | NELAP | 82.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Acrolein | NELAP | 82.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Acrylonitrile | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Allyl chloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Bromobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Bromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Bromodichloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Bromoform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Bromomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Carbon disulfide | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Carbon tetrachloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Chlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Chloroethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Chloroform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Chloromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Cyclohexanone | | 82.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Dibromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Dibromomethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Dichlorodifluoromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Diisopropyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Ethyl ether | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Ethyl methacrylate | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Ethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Ethyl-tert-butyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Hexachlorobutadiene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Hexachloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Iodomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Isopropylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| m,p-Xylenes | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Methacrylonitrile | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-023
**Client Sample ID:** SCI-58B (10-15)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Methylacrylate | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Methylene chloride | NELAP | 4.1 | J | **0.9** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Naphthalene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| n-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| n-Heptane | | 16.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| n-Hexane | | 16.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Nitrobenzene | NELAP | 82.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| n-Propylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| o-Xylene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Pentachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| p-Isopropyltoluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Propionitrile | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| sec-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Styrene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| tert-Amyl methyl ether | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| tert-Butyl alcohol | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| tert-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Tetrachloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Tetrahydrofuran | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Toluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| TPH - GRO (C6 - C10) | | 413 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Trichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Trichlorofluoromethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Vinyl acetate | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Xylenes, Total | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.4** | %REC | 1 | 01/14/2016 15:40 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.0** | %REC | 1 | 01/14/2016 15:40 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **98.0** | %REC | 1 | 01/14/2016 15:40 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-024 **Client Sample ID:** SCI-59A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 15:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **12.8** | % | 1 | 01/14/2016 16:23 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **9.15** | mg/Kg-dry | 1 | 01/14/2016 12:58 | 115594 |
| Barium | NELAP | 0.25 | | **220** | mg/Kg-dry | 1 | 01/14/2016 12:58 | 115594 |
| Cadmium | NELAP | 0.20 | | **0.53** | mg/Kg-dry | 1 | 01/14/2016 12:58 | 115594 |
| Chromium | NELAP | 0.49 | | **22.6** | mg/Kg-dry | 1 | 01/14/2016 12:58 | 115594 |
| Lead | NELAP | 1.47 | | **196** | mg/Kg-dry | 1 | 01/14/2016 12:58 | 115594 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 01/14/2016 12:58 | 115594 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 01/14/2016 12:58 | 115594 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.211** | mg/Kg-dry | 1 | 01/14/2016 11:28 | 115595 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 2.52 | | **ND** | mg/Kg-dry | 5 | 01/16/2016 3:37 | 115592 |
| Anthracene | NELAP | 2.52 | | **ND** | mg/Kg-dry | 5 | 01/16/2016 3:37 | 115592 |
| Benzo(a)anthracene | NELAP | 2.52 | J | **1.3** | mg/Kg-dry | 5 | 01/16/2016 3:37 | 115592 |
| Benzo(a)pyrene | NELAP | 2.52 | | **ND** | mg/Kg-dry | 5 | 01/18/2016 19:50 | 115592 |
| Benzo(b)fluoranthene | NELAP | 2.52 | | **ND** | mg/Kg-dry | 5 | 01/18/2016 19:50 | 115592 |
| Benzo(k)fluoranthene | NELAP | 2.52 | | **ND** | mg/Kg-dry | 5 | 01/18/2016 19:50 | 115592 |
| Chrysene | NELAP | 2.52 | | **ND** | mg/Kg-dry | 5 | 01/16/2016 3:37 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 2.52 | | **ND** | mg/Kg-dry | 5 | 01/18/2016 19:50 | 115592 |
| Fluoranthene | NELAP | 2.52 | J | **1.9** | mg/Kg-dry | 5 | 01/16/2016 3:37 | 115592 |
| Fluorene | NELAP | 2.52 | | **ND** | mg/Kg-dry | 5 | 01/16/2016 3:37 | 115592 |
| Pyrene | NELAP | 2.52 | J | **1.9** | mg/Kg-dry | 5 | 01/16/2016 3:37 | 115592 |
| TPH-DRO (C10 - C21) | | 890 | | **ND** | mg/Kg-dry | 5 | 01/16/2016 3:37 | 115592 |
| TPH-ORO (C21 - C35) | | 890 | J | **680** | mg/Kg-dry | 5 | 01/16/2016 3:37 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **61.3** | %REC | 5 | 01/16/2016 3:37 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **58.6** | %REC | 5 | 01/16/2016 3:37 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **72.0** | %REC | 5 | 01/16/2016 3:37 | 115592 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,1-Dichloro-2-propanone | | 41.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-024 **Client Sample ID:** SCI-59A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 15:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1-Chlorobutane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 2-Butanone | NELAP | 41.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 2-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 2-Hexanone | NELAP | 41.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 2-Nitropropane | NELAP | 41.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 4-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 41.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Acetone | NELAP | 41.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Acetonitrile | NELAP | 82.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Acrolein | NELAP | 82.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Acrylonitrile | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Allyl chloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Bromobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Bromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Bromodichloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Bromoform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Bromomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Carbon disulfide | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Carbon tetrachloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Chlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Chloroethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Chloroform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Chloromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Cyclohexanone | | 82.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Dibromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Dibromomethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Dichlorodifluoromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Diisopropyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Ethyl ether | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Ethyl methacrylate | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Ethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Ethyl-tert-butyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Hexachlorobutadiene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Hexachloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Iodomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Isopropylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| m,p-Xylenes | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-024 **Client Sample ID:** SCI-59A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 15:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 41.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Methyl Methacrylate | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Methylacrylate | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Methylene chloride | NELAP | 4.1 | J | **1.2** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Naphthalene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| n-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| n-Heptane | | 16.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| n-Hexane | | 16.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Nitrobenzene | NELAP | 82.8 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| n-Propylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| o-Xylene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Pentachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| p-Isopropyltoluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Propionitrile | NELAP | 41.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| sec-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Styrene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| tert-Amyl methyl ether | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| tert-Butyl alcohol | NELAP | 41.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| tert-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Tetrachloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Tetrahydrofuran | NELAP | 41.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Toluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| TPH - GRO (C6 - C10) | | 414 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Trichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Trichlorofluoromethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Vinyl acetate | NELAP | 41.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Xylenes, Total | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.3** | %REC | 1 | 01/14/2016 16:06 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | S | **124.0** | %REC | 1 | 01/14/2016 16:06 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **107.6** | %REC | 1 | 01/14/2016 16:06 | 115619 |

*Surrogate recovery is outside QC limits due to matrix interference.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-025
**Client Sample ID:** SCI-59B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 15:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.9** | % | 1 | 01/14/2016 16:24 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **8.58** | mg/Kg-dry | 1 | 01/14/2016 13:02 | 115594 |
| Barium | NELAP | 0.24 | | **88.2** | mg/Kg-dry | 1 | 01/14/2016 13:02 | 115594 |
| Cadmium | NELAP | 0.19 | | **0.41** | mg/Kg-dry | 1 | 01/14/2016 13:02 | 115594 |
| Chromium | NELAP | 0.47 | | **63.7** | mg/Kg-dry | 1 | 01/14/2016 13:02 | 115594 |
| Lead | NELAP | 1.42 | | **15.1** | mg/Kg-dry | 1 | 01/14/2016 13:02 | 115594 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/14/2016 13:02 | 115594 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/14/2016 13:02 | 115594 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.045** | mg/Kg-dry | 1 | 01/14/2016 11:31 | 115595 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Anthracene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Benzo(a)anthracene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Benzo(a)pyrene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Chrysene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Fluoranthene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Fluorene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Pyrene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| TPH-DRO (C10 - C21) | | 14.9 | J | **8.4** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| TPH-ORO (C21 - C35) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **81.9** | %REC | 1 | 01/14/2016 15:11 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **77.9** | %REC | 1 | 01/14/2016 15:11 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **90.7** | %REC | 1 | 01/14/2016 15:11 | 115592 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,1-Dichloro-2-propanone | | 43.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-025 **Client Sample ID:** SCI-59B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 15:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 2-Butanone | NELAP | 43.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 2-Hexanone | NELAP | 43.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 2-Nitropropane | NELAP | 43.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 43.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Acetone | NELAP | 43.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Acetonitrile | NELAP | 87.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Acrolein | NELAP | 87.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Acrylonitrile | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Bromomethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Chloroethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Chloromethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Cyclohexanone | | 87.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Dichlorodifluoromethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Iodomethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Methacrylonitrile | NELAP | 43.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-025
**Client Sample ID:** SCI-59B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 15:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Methylacrylate | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Methylene chloride | NELAP | 4.4 | J | **1.1** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Naphthalene | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| n-Heptane | | 17.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| n-Hexane | | 17.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Nitrobenzene | NELAP | 87.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Propionitrile | NELAP | 43.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| tert-Butyl alcohol | NELAP | 43.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Tetrahydrofuran | NELAP | 43.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| TPH - GRO (C6 - C10) | | 437 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Vinyl acetate | NELAP | 43.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.7** | %REC | 1 | 01/14/2016 16:33 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.9** | %REC | 1 | 01/14/2016 16:33 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **97.6** | %REC | 1 | 01/14/2016 16:33 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-026 **Client Sample ID:** TB-7

**Matrix:** TRIP BLANK **Collection Date:** 01/12/2016 16:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Acetone | NELAP | 25.0 | J | **12** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-026 **Client Sample ID:** TB-7

**Matrix:** TRIP BLANK **Collection Date:** 01/12/2016 16:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-026
**Client Sample ID:** TB-7
**Matrix:** TRIP BLANK
**Collection Date:** 01/12/2016 16:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **99.6** | %REC | 1 | 01/13/2016 13:08 | 115601 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **100.7** | %REC | 1 | 01/13/2016 13:08 | 115601 |
| Surr: Toluene-d8 | | 84.3-114 | | **98.7** | %REC | 1 | 01/13/2016 13:08 | 115601 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-027 **Client Sample ID:** TB-8

**Matrix:** TRIP BLANK **Collection Date:** 01/12/2016 16:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Acetone | NELAP | 25.0 | J | **12** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-027 **Client Sample ID:** TB-8

**Matrix:** TRIP BLANK **Collection Date:** 01/12/2016 16:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-027
**Client Sample ID:** TB-8
**Matrix:** TRIP BLANK
**Collection Date:** 01/12/2016 16:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **100.7** | %REC | 1 | 01/13/2016 13:34 | 115601 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **102.5** | %REC | 1 | 01/13/2016 13:34 | 115601 |
| Surr: Toluene-d8 | | 84.3-114 | | **97.4** | %REC | 1 | 01/13/2016 13:34 | 115601 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-028 **Client Sample ID:** GB-5

**Matrix:** AQUEOUS **Collection Date:** 01/12/2016 16:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Acetone | NELAP | 25.0 | J | **12** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-028 **Client Sample ID:** GB-5

**Matrix:** AQUEOUS **Collection Date:** 01/12/2016 16:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-028
**Client Sample ID:** GB-5
**Matrix:** AQUEOUS
**Collection Date:** 01/12/2016 16:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **99.3** | %REC | 1 | 01/13/2016 14:01 | 115601 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **101.6** | %REC | 1 | 01/13/2016 14:01 | 115601 |
| Surr: Toluene-d8 | | 84.3-114 | | **98.4** | %REC | 1 | 01/13/2016 14:01 | 115601 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-029
**Client Sample ID:** SCI-54D (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 13:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.0** | % | 1 | 01/14/2016 16:24 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **5.80** | mg/Kg-dry | 1 | 01/14/2016 13:13 | 115594 |
| Barium | NELAP | 0.23 | | **112** | mg/Kg-dry | 1 | 01/14/2016 13:13 | 115594 |
| Cadmium | NELAP | 0.18 | | **0.34** | mg/Kg-dry | 1 | 01/14/2016 13:13 | 115594 |
| Chromium | NELAP | 0.45 | | **24.9** | mg/Kg-dry | 1 | 01/14/2016 13:13 | 115594 |
| Lead | NELAP | 1.36 | | **11.5** | mg/Kg-dry | 1 | 01/14/2016 13:13 | 115594 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 01/14/2016 13:13 | 115594 |
| Silver | NELAP | 0.45 | | **< 0.45** | mg/Kg-dry | 1 | 01/14/2016 13:13 | 115594 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.035** | mg/Kg-dry | 1 | 01/14/2016 11:33 | 115595 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Anthracene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Benzo(a)anthracene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Benzo(a)pyrene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Chrysene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Fluoranthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Fluorene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Pyrene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| TPH-DRO (C10 - C21) | | 15.0 | J | **7.8** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| TPH-ORO (C21 - C35) | | 15.0 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.3** | %REC | 1 | 01/15/2016 20:41 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.9** | %REC | 1 | 01/15/2016 20:41 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **93.9** | %REC | 1 | 01/15/2016 20:41 | 115592 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,1-Dichloro-2-propanone | | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-029 **Client Sample ID:** SCI-54D (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 13:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 2-Butanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 2-Hexanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 2-Nitropropane | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Acetone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Acetonitrile | NELAP | 91.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Acrolein | NELAP | 91.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Acrylonitrile | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Bromomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Chloroethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Chloromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Cyclohexanone | | 91.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Dichlorodifluoromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Iodomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Methacrylonitrile | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-029
**Client Sample ID:** SCI-54D (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 13:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Methylacrylate | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Methylene chloride | NELAP | 4.6 | J | **1.4** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Naphthalene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| n-Heptane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| n-Hexane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Nitrobenzene | NELAP | 91.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Propionitrile | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| tert-Butyl alcohol | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Tetrahydrofuran | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| TPH - GRO (C6 - C10) | | 457 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Vinyl acetate | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.9** | %REC | 1 | 01/14/2016 16:59 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.0** | %REC | 1 | 01/14/2016 16:59 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **99.6** | %REC | 1 | 01/14/2016 16:59 | 115619 |

# Quality Control Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608
**Report Date:** 19-Jan-16

## EPA SW846 3550C, 5035A, ASTM D2974

**Batch** R213802 **SampType:** LCS Units **%**
SampID: LCS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 01/14/2016 |

**Batch** R213802 **SampType:** LCSQC Units **%**
SampID: LCSQC

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 01/14/2016 |

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115589 **SampType:** MBLK Units **mg/Kg-dry**
SampID: MBLK-115589

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Barium | 0.25 | | **< 0.25** | 0.2500 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Silver | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/14/2016 |

**Batch** 115589 **SampType:** LCS Units **mg/Kg-dry**
SampID: LCS-115589

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **47.0** | 50.00 | 0 | 94.1 | 85 | 115 | 01/14/2016 |
| Barium | 0.25 | | **193** | 200.0 | 0 | 96.4 | 85 | 115 | 01/14/2016 |
| Cadmium | 0.20 | | **4.88** | 5.000 | 0 | 97.6 | 85 | 115 | 01/14/2016 |
| Chromium | 0.50 | | **20.4** | 20.00 | 0 | 102.0 | 85 | 115 | 01/14/2016 |
| Lead | 1.50 | | **51.0** | 50.00 | 0 | 102.1 | 85 | 115 | 01/14/2016 |
| Selenium | 4.00 | | **48.4** | 50.00 | 0 | 96.8 | 85 | 115 | 01/14/2016 |
| Silver | 0.50 | | **4.69** | 5.000 | 0 | 93.8 | 85 | 115 | 01/14/2016 |

**Batch** 115589 **SampType:** MS Units **mg/Kg-dry**
SampID: 16010606-020AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.50 | | **59.0** | 50.00 | 9.190 | 99.6 | 75 | 125 | 01/14/2016 |

**Batch** 115589 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**
SampID: 16010606-020AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.50 | | **58.1** | 50.00 | 9.190 | 97.9 | 59.01 | 1.49 | 01/14/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608
**Report Date:** 19-Jan-16

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115589 **SampType:** MS Units **mg/Kg-dry**
SampID: 16010608-004AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.40 | | **54.5** | 48.08 | 10.60 | 91.2 | 75 | 125 | 01/14/2016 |
| Barium | 0.24 | | **380** | 192.3 | 185.1 | 101.4 | 75 | 125 | 01/14/2016 |
| Cadmium | 0.19 | | **4.67** | 4.808 | 0.1635 | 93.8 | 75 | 125 | 01/14/2016 |
| Chromium | 0.48 | | **39.5** | 19.23 | 19.60 | 103.4 | 75 | 125 | 01/14/2016 |
| Lead | 1.44 | | **61.6** | 48.08 | 14.04 | 98.9 | 75 | 125 | 01/14/2016 |
| Selenium | 3.85 | | **42.4** | 48.08 | 0 | 88.2 | 75 | 125 | 01/14/2016 |
| Silver | 0.48 | | **4.06** | 4.808 | 0 | 84.4 | 75 | 125 | 01/14/2016 |

**Batch** 115589 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**
SampID: 16010608-004AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.40 | | **54.9** | 48.08 | 10.60 | 92.1 | 54.46 | 0.77 | 01/14/2016 |
| Barium | 0.24 | | **374** | 192.3 | 185.1 | 98.0 | 380.1 | 1.71 | 01/14/2016 |
| Cadmium | 0.19 | | **4.69** | 4.808 | 0.1635 | 94.2 | 4.673 | 0.41 | 01/14/2016 |
| Chromium | 0.48 | | **39.8** | 19.23 | 19.60 | 105.0 | 39.49 | 0.75 | 01/14/2016 |
| Lead | 1.44 | | **62.0** | 48.08 | 14.04 | 99.8 | 61.58 | 0.70 | 01/14/2016 |
| Selenium | 3.85 | | **43.0** | 48.08 | 0 | 89.3 | 42.40 | 1.28 | 01/14/2016 |
| Silver | 0.48 | | **4.12** | 4.808 | 0 | 85.6 | 4.058 | 1.41 | 01/14/2016 |

**Batch** 115594 **SampType:** MBLK Units **mg/Kg-dry**
SampID: MBLK-115594

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Barium | 0.25 | | **< 0.25** | 0.2500 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Silver | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/14/2016 |

**Batch** 115594 **SampType:** LCS Units **mg/Kg-dry**
SampID: LCS-115594

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **46.6** | 50.00 | 0 | 93.1 | 85 | 115 | 01/14/2016 |
| Barium | 0.25 | | **191** | 200.0 | 0 | 95.6 | 85 | 115 | 01/14/2016 |
| Cadmium | 0.20 | | **4.72** | 5.000 | 0 | 94.4 | 85 | 115 | 01/14/2016 |
| Chromium | 0.50 | | **20.1** | 20.00 | 0 | 100.7 | 85 | 115 | 01/14/2016 |
| Lead | 1.50 | | **50.6** | 50.00 | 0 | 101.3 | 85 | 115 | 01/14/2016 |
| Selenium | 4.00 | | **46.6** | 50.00 | 0 | 93.3 | 85 | 115 | 01/14/2016 |
| Silver | 0.50 | | **4.60** | 5.000 | 0 | 92.0 | 85 | 115 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3050B, 6010B, METALS BY ICP

**Batch 115594** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010608-025AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.36 | | **50.6** | 47.17 | 8.575 | 89.1 | 75 | 125 | 01/14/2016 |
| Barium | 0.24 | | **278** | 188.7 | 88.21 | 100.4 | 75 | 125 | 01/14/2016 |
| Cadmium | 0.19 | | **4.89** | 4.717 | 0.4057 | 95.0 | 75 | 125 | 01/14/2016 |
| Chromium | 0.47 | | **84.4** | 18.87 | 63.65 | 109.8 | 75 | 125 | 01/14/2016 |
| Lead | 1.42 | | **61.8** | 47.17 | 15.08 | 99.0 | 75 | 125 | 01/14/2016 |
| Selenium | 3.77 | | **41.0** | 47.17 | 0 | 86.9 | 75 | 125 | 01/14/2016 |
| Silver | 0.47 | | **4.15** | 4.717 | 0 | 88.0 | 75 | 125 | 01/14/2016 |

**Batch 115594** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **20**

SampID: 16010608-025AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.36 | | **51.4** | 47.17 | 8.575 | 90.8 | 50.60 | 1.61 | 01/14/2016 |
| Barium | 0.24 | | **290** | 188.7 | 88.21 | 106.9 | 277.6 | 4.32 | 01/14/2016 |
| Cadmium | 0.19 | | **4.91** | 4.717 | 0.4057 | 95.4 | 4.887 | 0.39 | 01/14/2016 |
| Chromium | 0.47 | | **84.1** | 18.87 | 63.65 | 108.5 | 84.37 | 0.30 | 01/14/2016 |
| Lead | 1.42 | | **62.3** | 47.17 | 15.08 | 100.2 | 61.79 | 0.88 | 01/14/2016 |
| Selenium | 3.77 | | **41.9** | 47.17 | 0 | 88.9 | 41.00 | 2.21 | 01/14/2016 |
| Silver | 0.47 | | **4.16** | 4.717 | 0 | 88.2 | 4.151 | 0.23 | 01/14/2016 |

## SW-846 7471B

**Batch 115590** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115590

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **< 0.010** | 0.01000 | 0 | 0 | -100 | 100 | 01/14/2016 |

**Batch 115590** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115590

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.253** | 0.2500 | 0 | 101.2 | 85 | 115 | 01/14/2016 |

**Batch 115590** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010608-003AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.330** | 0.2887 | 0.02906 | 104.1 | 75 | 125 | 01/14/2016 |

**Batch 115590** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**

SampID: 16010608-003AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.322** | 0.2887 | 0.02906 | 101.6 | 0.3297 | 2.28 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 7471B

**Batch 115590** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010608-013AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.340** | 0.2975 | 0.02781 | 104.8 | 75 | 125 | 01/14/2016 |

**Batch 115590** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**

SampID: 16010608-013AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.334** | 0.2975 | 0.02781 | 102.9 | 0.3397 | 1.75 | 01/14/2016 |

**Batch 115595** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115595

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **< 0.010** | 0.01000 | 0 | 0 | -100 | 100 | 01/14/2016 |

**Batch 115595** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115595

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.251** | 0.2500 | 0 | 100.5 | 85 | 115 | 01/14/2016 |

**Batch 115595** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010624-001AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.188 | | **4.80** | 4.706 | 0.3956 | 93.6 | 75 | 125 | 01/14/2016 |

**Batch 115595** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**

SampID: 16010624-001AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.188 | | **5.09** | 4.706 | 0.3956 | 99.7 | 4.800 | 5.84 | 01/14/2016 |

## SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD

**Batch 115591** **SampType: MBLK** Units **µg/Kg**

SampID: MBLK-115591

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 37.5 | | **ND** | | | | | | 01/14/2016 |
| Aroclor 1221 | 37.5 | | **ND** | | | | | | 01/14/2016 |
| Aroclor 1232 | 37.5 | | **ND** | | | | | | 01/14/2016 |
| Aroclor 1242 | 37.5 | | **ND** | | | | | | 01/14/2016 |
| Aroclor 1248 | 37.5 | | **ND** | | | | | | 01/14/2016 |
| Aroclor 1254 | 37.5 | | **ND** | | | | | | 01/14/2016 |
| Aroclor 1260 | 37.5 | | **ND** | | | | | | 01/14/2016 |
| Surr: Decachlorobiphenyl | | | **7.8** | 8.300 | | 94.2 | 76.4 | 155 | 01/14/2016 |
| Surr: Tetrachloro-meta-xylene | | | **6.1** | 8.300 | | 73.8 | 44.4 | 122 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD

**Batch 115591** **SampType: LCS** Units **µg/Kg**

SampID: LCSPCB-115591

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 37.5 | | **141** | 166.7 | 0 | 84.4 | 63.5 | 130 | 01/14/2016 |
| Aroclor 1260 | 37.5 | | **145** | 166.7 | 0 | 86.9 | 76 | 138 | 01/14/2016 |
| Surr: Decachlorobiphenyl | | | **7.1** | 8.300 | | 85.8 | 76.4 | 155 | 01/14/2016 |
| Surr: Tetrachloro-meta-xylene | | | **6.5** | 8.300 | | 78.1 | 44.4 | 122 | 01/14/2016 |

**Batch 115591** **SampType: MS** Units **µg/Kg-dry**

SampID: 16010608-005AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 37.4 | | **142** | 166.2 | 0 | 85.2 | 35.8 | 143 | 01/14/2016 |
| Aroclor 1260 | 37.4 | | **147** | 166.2 | 0 | 88.6 | 22.3 | 152 | 01/14/2016 |
| Surr: Decachlorobiphenyl | | | **5.9** | 8.275 | | 70.9 | 5 | 156 | 01/14/2016 |
| Surr: Tetrachloro-meta-xylene | | | **4.5** | 8.275 | | 54.6 | 7.35 | 123 | 01/14/2016 |

**Batch 115591** **SampType: MSD** Units **µg/Kg-dry** RPD Limit **40**

SampID: 16010608-005AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 37.4 | | **133** | 166.4 | 0 | 80.0 | 141.6 | 6.22 | 01/14/2016 |
| Aroclor 1260 | 37.4 | | **147** | 166.4 | 0 | 88.5 | 147.3 | 0.03 | 01/14/2016 |
| Surr: Decachlorobiphenyl | | | **5.8** | 8.286 | | 70.4 | | | 01/14/2016 |
| Surr: Tetrachloro-meta-xylene | | | **4.7** | 8.286 | | 56.3 | | | 01/14/2016 |

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115583** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115583

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Anthracene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Benzo(a)anthracene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Benzo(a)pyrene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Chrysene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Fluoranthene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Fluorene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Pyrene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| TPH-DRO (C10 - C21) | 12.0 | J | **6.6** | | | | | | 01/13/2016 |
| TPH-ORO (C21 - C35) | 12.0 | | **ND** | | | | | | 01/13/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.687** | 0.8350 | | 82.2 | 42.6 | 97.2 | 01/13/2016 |
| Surr: Nitrobenzene-d5 | | | **0.654** | 0.8350 | | 78.4 | 16.7 | 118 | 01/13/2016 |
| Surr: p-Terphenyl-d14 | | | **0.773** | 0.8350 | | 92.5 | 50.1 | 111 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115583 **SampType:** LCS Units **mg/Kg**

SampID: LCS-115583

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **1.26** | 1.670 | 0 | 75.7 | 56.4 | 104 | 01/13/2016 |
| Anthracene | 0.0340 | | **1.15** | 1.670 | 0 | 69.1 | 55.9 | 101 | 01/13/2016 |
| Benzo(a)anthracene | 0.0340 | | **1.20** | 1.670 | 0 | 71.8 | 51.7 | 107 | 01/13/2016 |
| Benzo(a)pyrene | 0.0340 | | **1.24** | 1.670 | 0 | 74.5 | 57.2 | 114 | 01/13/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **1.28** | 1.670 | 0 | 76.7 | 45.3 | 116 | 01/13/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **1.21** | 1.670 | 0 | 72.4 | 58.2 | 114 | 01/13/2016 |
| Chrysene | 0.0340 | | **1.23** | 1.670 | 0 | 73.6 | 58.9 | 102 | 01/13/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **1.33** | 1.670 | 0 | 79.5 | 48.9 | 123 | 01/13/2016 |
| Fluoranthene | 0.0340 | | **1.22** | 1.670 | 0 | 72.8 | 54.9 | 108 | 01/13/2016 |
| Fluorene | 0.0340 | | **1.19** | 1.670 | 0 | 71.2 | 58 | 101 | 01/13/2016 |
| Pyrene | 0.0340 | | **1.26** | 1.670 | 0 | 75.4 | 53.4 | 107 | 01/13/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.596** | 0.8350 | | 71.3 | 42.6 | 97.2 | 01/13/2016 |
| Surr: Nitrobenzene-d5 | | | **0.779** | 0.8350 | | 93.3 | 16.7 | 118 | 01/13/2016 |
| Surr: p-Terphenyl-d14 | | | **0.674** | 0.8350 | | 80.8 | 50.1 | 111 | 01/13/2016 |

**Batch** 115583 **SampType:** LCSG Units **mg/Kg**

SampID: LCSDRO-115583

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 12.0 | | **29.4** | 33.40 | 0 | 88.1 | 53.7 | 103 | 01/13/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.624** | 0.8350 | | 74.8 | 42.6 | 97.2 | 01/13/2016 |
| Surr: Nitrobenzene-d5 | | | **0.604** | 0.8350 | | 72.4 | 16.7 | 118 | 01/13/2016 |
| Surr: p-Terphenyl-d14 | | | **0.724** | 0.8350 | | 86.7 | 50.1 | 111 | 01/13/2016 |

**Batch** 115583 **SampType:** MS Units **mg/Kg-dry**

SampID: 16010608-011AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 14.6 | | **33.5** | 40.52 | 7.813 | 63.3 | 34.5 | 160 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.561** | 1.013 | | 55.4 | 12 | 133 | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.590** | 1.013 | | 58.2 | 30.9 | 115 | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.835** | 1.013 | | 82.4 | 31.5 | 137 | 01/14/2016 |

**Batch** 115583 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **30**

SampID: 16010608-011AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 14.5 | | **32.3** | 40.39 | 7.813 | 60.7 | 33.45 | 3.40 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.504** | 1.010 | | 49.9 | | | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.537** | 1.010 | | 53.2 | | | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.842** | 1.010 | | 83.4 | | | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115592 **SampType:** MBLK Units **mg/Kg**

SampID: MBLK-115592

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Anthracene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Benzo(a)anthracene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Benzo(a)pyrene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Chrysene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Fluoranthene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Fluorene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Pyrene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| TPH-DRO (C10 - C21) | 12.0 | J | **6.4** | | | | | | 01/14/2016 |
| TPH-ORO (C21 - C35) | 12.0 | | **ND** | | | | | | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.593** | 0.8350 | | 71.0 | 42.6 | 97.2 | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.542** | 0.8350 | | 64.9 | 16.7 | 118 | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.660** | 0.8350 | | 79.1 | 50.1 | 111 | 01/14/2016 |

**Batch** 115592 **SampType:** LCS Units **mg/Kg**

SampID: LCS-115592

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **1.20** | 1.670 | 0 | 71.7 | 56.4 | 104 | 01/14/2016 |
| Anthracene | 0.0340 | | **1.12** | 1.670 | 0 | 66.9 | 55.9 | 101 | 01/14/2016 |
| Benzo(a)anthracene | 0.0340 | | **1.16** | 1.670 | 0 | 69.6 | 51.7 | 107 | 01/14/2016 |
| Benzo(a)pyrene | 0.0340 | | **1.22** | 1.670 | 0 | 73.2 | 57.2 | 114 | 01/14/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **1.20** | 1.670 | 0 | 71.8 | 45.3 | 116 | 01/14/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **1.25** | 1.670 | 0 | 75.1 | 58.2 | 114 | 01/14/2016 |
| Chrysene | 0.0340 | | **1.22** | 1.670 | 0 | 72.9 | 58.9 | 102 | 01/14/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **1.30** | 1.670 | 0 | 77.9 | 48.9 | 123 | 01/14/2016 |
| Fluoranthene | 0.0340 | | **1.21** | 1.670 | 0 | 72.6 | 54.9 | 108 | 01/14/2016 |
| Fluorene | 0.0340 | | **1.15** | 1.670 | 0 | 69.0 | 58 | 101 | 01/14/2016 |
| Pyrene | 0.0340 | | **1.24** | 1.670 | 0 | 74.2 | 53.4 | 107 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.548** | 0.8350 | | 65.7 | 42.6 | 97.2 | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.744** | 0.8350 | | 89.2 | 16.7 | 118 | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.631** | 0.8350 | | 75.6 | 50.1 | 111 | 01/14/2016 |

**Batch** 115592 **SampType:** LCSG Units **mg/Kg**

SampID: LCSDRO-115592

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 12.0 | | **28.4** | 33.40 | 0 | 85.0 | 53.7 | 103 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.591** | 0.8350 | | 70.8 | 42.6 | 97.2 | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.547** | 0.8350 | | 65.5 | 16.7 | 118 | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.677** | 0.8350 | | 81.1 | 50.1 | 111 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115592** **SampType:** **MS** Units **mg/Kg-dry**

SampID: 16010608-025AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 15.0 | | **33.4** | 41.64 | 8.425 | 59.9 | 34.5 | 160 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.386** | 1.041 | | 37.0 | 12 | 133 | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.579** | 1.041 | | 55.7 | 30.9 | 115 | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.837** | 1.041 | | 80.4 | 31.5 | 137 | 01/14/2016 |

**Batch** **115592** **SampType:** **MSD** Units **mg/Kg-dry** RPD Limit **30**

SampID: 16010608-025AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 14.9 | | **35.4** | 41.55 | 8.425 | 65.0 | 33.36 | 6.03 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.591** | 1.039 | | 56.9 | | | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.644** | 1.039 | | 62.0 | | | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.886** | 1.039 | | 85.2 | | | 01/14/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608
**Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115601** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Butanone | 25.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Hexanone | 25.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **ND** | | | | | | 01/13/2016 |
| Acetone | 25.0 | | **ND** | | | | | | 01/13/2016 |
| Acetonitrile | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/13/2016 |
| Acrylonitrile | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Benzene | 2.0 | | **ND** | | | | | | 01/13/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115601** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Chloromethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Chloroprene | 20.0 | | **ND** | | | | | | 01/13/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Cyclohexanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Diisopropyl ether | 2.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl acetate | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **ND** | | | | | | 01/13/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Hexachloroethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Iodomethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Methacrylonitrile | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/13/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/13/2016 |
| n-Butyl acetate | 25.0 | | **ND** | | | | | | 01/13/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/13/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/13/2016 |
| Nitrobenzene | 50.0 | | **ND** | | | | | | 01/13/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Pentachloroethane | 20.0 | | **ND** | | | | | | 01/13/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/13/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| tert-Amyl methyl ether | 2.0 | | **ND** | | | | | | 01/13/2016 |
| tert-Butyl alcohol | 25.0 | | **ND** | | | | | | 01/13/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Tetrahydrofuran | 20.0 | | **ND** | | | | | | 01/13/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115601** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Vinyl acetate | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/13/2016 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 01/13/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.0** | 50.00 | | 96.0 | 74.7 | 129 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.7** | 50.00 | | 99.4 | 86 | 119 | 01/13/2016 |
| Surr: Toluene-d8 | | | **48.4** | 50.00 | | 96.7 | 84.3 | 114 | 01/13/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608
**Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115601** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **52.8** | 50.00 | 0 | 105.7 | 51.08 | 3.39 | 01/13/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 47.82 | 3.88 | 01/13/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **47.2** | 50.00 | 0 | 94.5 | 47.08 | 0.34 | 01/13/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **50.5** | 50.00 | 0 | 101.0 | 49.29 | 2.39 | 01/13/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **49.4** | 50.00 | 0 | 98.9 | 48.12 | 2.69 | 01/13/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **102** | 125.0 | 0 | 81.7 | 104.7 | 2.42 | 01/13/2016 |
| 1,1-Dichloroethane | 5.0 | | **45.9** | 50.00 | 0 | 91.7 | 45.25 | 1.34 | 01/13/2016 |
| 1,1-Dichloroethene | 5.0 | | **47.7** | 50.00 | 0 | 95.3 | 45.98 | 3.61 | 01/13/2016 |
| 1,1-Dichloropropene | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 49.74 | 1.26 | 01/13/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 49.46 | 0.16 | 01/13/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **45.4** | 50.00 | 0 | 90.8 | 44.30 | 2.43 | 01/13/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 51.00 | 0.80 | 01/13/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 49.75 | 1.20 | 01/13/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 52.21 | 0.40 | 01/13/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **44.1** | 50.00 | 0 | 88.1 | 44.57 | 1.15 | 01/13/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 48.52 | 1.76 | 01/13/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 50.87 | 1.81 | 01/13/2016 |
| 1,2-Dichloroethane | 5.0 | | **46.2** | 50.00 | 0 | 92.5 | 45.40 | 1.85 | 01/13/2016 |
| 1,2-Dichloropropane | 5.0 | | **49.1** | 50.00 | 0 | 98.3 | 48.13 | 2.06 | 01/13/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 52.25 | 0.74 | 01/13/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 50.02 | 3.59 | 01/13/2016 |
| 1,3-Dichloropropane | 5.0 | | **48.2** | 50.00 | 0 | 96.3 | 46.22 | 4.11 | 01/13/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 50.18 | 0.66 | 01/13/2016 |
| 1-Chlorobutane | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 48.02 | 3.54 | 01/13/2016 |
| 2,2-Dichloropropane | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 49.54 | 1.14 | 01/13/2016 |
| 2-Butanone | 25.0 | | **110** | 125.0 | 0 | 87.9 | 117.6 | 6.73 | 01/13/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **47.7** | 50.00 | 0 | 95.4 | 47.37 | 0.72 | 01/13/2016 |
| 2-Chlorotoluene | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 50.02 | 2.68 | 01/13/2016 |
| 2-Hexanone | 25.0 | | **108** | 125.0 | 0 | 86.5 | 111.8 | 3.29 | 01/13/2016 |
| 2-Nitropropane | 50.0 | | **489** | 500.0 | 0 | 97.7 | 504.7 | 3.25 | 01/13/2016 |
| 4-Chlorotoluene | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 50.40 | 1.36 | 01/13/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **109** | 125.0 | 0 | 87.4 | 109.9 | 0.62 | 01/13/2016 |
| Acetone | 25.0 | | **117** | 125.0 | 0 | 93.9 | 130.5 | 10.59 | 01/13/2016 |
| Acetonitrile | 50.0 | | **441** | 500.0 | 0 | 88.2 | 463.0 | 4.82 | 01/13/2016 |
| Acrolein | 100 | | **420** | 500.0 | 0 | 84.0 | 438.2 | 4.23 | 01/13/2016 |
| Acrylonitrile | 5.0 | | **42.4** | 50.00 | 0 | 84.7 | 44.16 | 4.16 | 01/13/2016 |
| Allyl chloride | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 46.92 | 4.13 | 01/13/2016 |
| Benzene | 2.0 | | **50.2** | 50.00 | 0 | 100.3 | 49.57 | 1.16 | 01/13/2016 |
| Bromobenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 48.36 | 1.40 | 01/13/2016 |
| Bromochloromethane | 5.0 | | **46.7** | 50.00 | 0 | 93.4 | 45.94 | 1.62 | 01/13/2016 |
| Bromodichloromethane | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 51.14 | 2.57 | 01/13/2016 |
| Bromoform | 5.0 | | **52.1** | 50.00 | 0 | 104.1 | 51.12 | 1.82 | 01/13/2016 |
| Bromomethane | 10.0 | | **42.2** | 50.00 | 0 | 84.4 | 41.39 | 1.94 | 01/13/2016 |
| Carbon disulfide | 5.0 | | **47.2** | 50.00 | 0 | 94.4 | 46.34 | 1.84 | 01/13/2016 |
| Carbon tetrachloride | 5.0 | | **53.1** | 50.00 | 0 | 106.3 | 52.33 | 1.54 | 01/13/2016 |
| Chlorobenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.1 | 48.76 | 3.59 | 01/13/2016 |
| Chloroethane | 10.0 | | **42.4** | 50.00 | 0 | 84.7 | 41.68 | 1.62 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115601** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **46.1** | 50.00 | 0 | 92.2 | 45.82 | 0.65 | 01/13/2016 |
| Chloromethane | 10.0 | | **39.6** | 50.00 | 0 | 79.2 | 40.52 | 2.30 | 01/13/2016 |
| Chloroprene | 20.0 | | **47.3** | 50.00 | 0 | 94.7 | 46.84 | 1.06 | 01/13/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 47.94 | 0.93 | 01/13/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 52.37 | 1.99 | 01/13/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 48.46 | 2.80 | 01/13/2016 |
| Cyclohexanone | 50.0 | | **360** | 500.0 | 0 | 72.1 | 432.4 | 18.14 | 01/13/2016 |
| Dibromochloromethane | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 51.95 | 2.58 | 01/13/2016 |
| Dibromomethane | 5.0 | | **48.8** | 50.00 | 0 | 97.7 | 48.60 | 0.49 | 01/13/2016 |
| Dichlorodifluoromethane | 10.0 | | **38.9** | 50.00 | 0 | 77.7 | 37.39 | 3.88 | 01/13/2016 |
| Diisopropyl ether | 2.0 | | **49.2** | 50.00 | 0 | 98.4 | 48.69 | 1.04 | 01/13/2016 |
| Ethyl acetate | 10.0 | | **42.4** | 50.00 | 0 | 84.7 | 43.87 | 3.53 | 01/13/2016 |
| Ethyl ether | 5.0 | | **45.7** | 50.00 | 0 | 91.4 | 43.33 | 5.30 | 01/13/2016 |
| Ethyl methacrylate | 5.0 | | **49.3** | 50.00 | 0 | 98.7 | 47.54 | 3.70 | 01/13/2016 |
| Ethylbenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 48.44 | 3.61 | 01/13/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **47.4** | 50.00 | 0 | 94.8 | 46.73 | 1.38 | 01/13/2016 |
| Hexachlorobutadiene | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 49.62 | 5.34 | 01/13/2016 |
| Hexachloroethane | 10.0 | | **52.9** | 50.00 | 0 | 105.7 | 51.40 | 2.80 | 01/13/2016 |
| Iodomethane | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 51.22 | 1.03 | 01/13/2016 |
| Isopropylbenzene | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 52.21 | 1.67 | 01/13/2016 |
| m,p-Xylenes | 5.0 | | **100** | 100.0 | 0 | 100.3 | 100.5 | 0.21 | 01/13/2016 |
| Methacrylonitrile | 10.0 | | **45.0** | 50.00 | 0 | 90.1 | 44.80 | 0.51 | 01/13/2016 |
| Methyl Methacrylate | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 47.67 | 3.16 | 01/13/2016 |
| Methyl tert-butyl ether | 2.0 | | **47.5** | 50.00 | 0 | 94.9 | 46.76 | 1.51 | 01/13/2016 |
| Methylacrylate | 10.0 | | **45.7** | 50.00 | 0 | 91.4 | 46.45 | 1.65 | 01/13/2016 |
| Methylene chloride | 5.0 | | **44.7** | 50.00 | 0 | 89.5 | 44.88 | 0.31 | 01/13/2016 |
| Naphthalene | 10.0 | | **51.6** | 50.00 | 0 | 103.3 | 51.92 | 0.52 | 01/13/2016 |
| n-Butyl acetate | 25.0 | | **44.8** | 50.00 | 0 | 89.6 | 45.04 | 0.58 | 01/13/2016 |
| n-Butylbenzene | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 51.52 | 2.28 | 01/13/2016 |
| n-Heptane | 20.0 | | **50.1** | 50.00 | 0 | 100.2 | 49.17 | 1.91 | 01/13/2016 |
| n-Hexane | 20.0 | | **47.3** | 50.00 | 0 | 94.6 | 46.54 | 1.64 | 01/13/2016 |
| Nitrobenzene | 50.0 | | **374** | 500.0 | 0 | 74.9 | 403.6 | 7.49 | 01/13/2016 |
| n-Propylbenzene | 5.0 | | **52.1** | 50.00 | 0 | 104.1 | 49.82 | 4.40 | 01/13/2016 |
| o-Xylene | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 49.80 | 3.24 | 01/13/2016 |
| Pentachloroethane | 20.0 | | **53.4** | 50.00 | 0 | 106.8 | 53.13 | 0.54 | 01/13/2016 |
| p-Isopropyltoluene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 52.03 | 3.27 | 01/13/2016 |
| Propionitrile | 50.0 | | **422** | 500.0 | 0 | 84.5 | 447.7 | 5.84 | 01/13/2016 |
| sec-Butylbenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 51.64 | 2.99 | 01/13/2016 |
| Styrene | 5.0 | | **53.8** | 50.00 | 0 | 107.7 | 52.43 | 2.67 | 01/13/2016 |
| tert-Amyl methyl ether | 2.0 | | **51.3** | 50.00 | 0 | 102.5 | 50.70 | 1.12 | 01/13/2016 |
| tert-Butyl alcohol | 25.0 | | **185** | 250.0 | 0 | 74.2 | 213.7 | 14.13 | 01/13/2016 |
| tert-Butylbenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 49.84 | 2.75 | 01/13/2016 |
| Tetrachloroethene | 5.0 | | **49.9** | 50.00 | 0 | 99.7 | 47.48 | 4.89 | 01/13/2016 |
| Tetrahydrofuran | 20.0 | | **42.7** | 50.00 | 0 | 85.5 | 43.94 | 2.79 | 01/13/2016 |
| Toluene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 47.61 | 3.67 | 01/13/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **47.2** | 50.00 | 0 | 94.3 | 46.01 | 2.49 | 01/13/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **51.5** | 50.00 | 0 | 102.9 | 50.42 | 2.06 | 01/13/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608
**Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115601** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **50.3** | 50.00 | 0 | 100.7 | 51.37 | 2.03 | 01/13/2016 |
| Trichloroethene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 49.10 | 2.04 | 01/13/2016 |
| Trichlorofluoromethane | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 47.13 | 2.82 | 01/13/2016 |
| Vinyl acetate | 10.0 | | **47.1** | 50.00 | 0 | 94.1 | 48.93 | 3.88 | 01/13/2016 |
| Vinyl chloride | 2.0 | | **42.8** | 50.00 | 0 | 85.6 | 42.78 | 0.09 | 01/13/2016 |
| Xylenes, Total | 5.0 | | **152** | 150.0 | 0 | 101.1 | 150.3 | 0.95 | 01/13/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **95.6** | 100.0 | 0 | 95.6 | 93.95 | 1.70 | 01/13/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **105** | 100.0 | 0 | 104.9 | 102.8 | 2.02 | 01/13/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **97.5** | 100.0 | 0 | 97.5 | 99.83 | 2.40 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **46.9** | 50.00 | | 93.8 | | | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.1** | 50.00 | | 100.2 | | | 01/13/2016 |
| Surr: Toluene-d8 | | | **48.5** | 50.00 | | 97.0 | | | 01/13/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16010608

**Client Project:** NGA 2015-0461.21

**Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115601** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 81.9 | 115 | 01/13/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 79.4 | 124 | 01/13/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 74.7 | 116 | 01/13/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **49.3** | 50.00 | 0 | 98.6 | 72.9 | 121 | 01/13/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 80.8 | 111 | 01/13/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **105** | 125.0 | 0 | 83.7 | 66.3 | 130 | 01/13/2016 |
| 1,1-Dichloroethane | 5.0 | | **45.2** | 50.00 | 0 | 90.5 | 79.4 | 114 | 01/13/2016 |
| 1,1-Dichloroethene | 5.0 | | **46.0** | 50.00 | 0 | 92.0 | 74.1 | 117 | 01/13/2016 |
| 1,1-Dichloropropene | 5.0 | | **49.7** | 50.00 | 0 | 99.5 | 81.7 | 116 | 01/13/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **49.5** | 50.00 | 0 | 98.9 | 79.7 | 118 | 01/13/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **44.3** | 50.00 | 0 | 88.6 | 77.3 | 112 | 01/13/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 79.9 | 119 | 01/13/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 79.3 | 118 | 01/13/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 78.7 | 115 | 01/13/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **44.6** | 50.00 | 0 | 89.1 | 76 | 122 | 01/13/2016 |
| 1,2-Dibromoethane | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 80.8 | 114 | 01/13/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.7 | 78.3 | 112 | 01/13/2016 |
| 1,2-Dichloroethane | 5.0 | | **45.4** | 50.00 | 0 | 90.8 | 70.6 | 118 | 01/13/2016 |
| 1,2-Dichloropropane | 5.0 | | **48.1** | 50.00 | 0 | 96.3 | 79.6 | 113 | 01/13/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.5 | 77.5 | 115 | 01/13/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 78.6 | 117 | 01/13/2016 |
| 1,3-Dichloropropane | 5.0 | | **46.2** | 50.00 | 0 | 92.4 | 78.8 | 112 | 01/13/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 77.8 | 114 | 01/13/2016 |
| 1-Chlorobutane | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 78.6 | 115 | 01/13/2016 |
| 2,2-Dichloropropane | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 74.9 | 130 | 01/13/2016 |
| 2-Butanone | 25.0 | | **118** | 125.0 | 0 | 94.1 | 70.7 | 136 | 01/13/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **47.4** | 50.00 | 0 | 94.7 | 52.5 | 145 | 01/13/2016 |
| 2-Chlorotoluene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 77.4 | 114 | 01/13/2016 |
| 2-Hexanone | 25.0 | | **112** | 125.0 | 0 | 89.4 | 73.3 | 125 | 01/13/2016 |
| 2-Nitropropane | 50.0 | | **505** | 500.0 | 0 | 100.9 | 67.3 | 139 | 01/13/2016 |
| 4-Chlorotoluene | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 78.3 | 115 | 01/13/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **110** | 125.0 | 0 | 87.9 | 76.3 | 122 | 01/13/2016 |
| Acetone | 25.0 | | **130** | 125.0 | 0 | 104.4 | 56.4 | 147 | 01/13/2016 |
| Acetonitrile | 50.0 | | **463** | 500.0 | 0 | 92.6 | 59.3 | 129 | 01/13/2016 |
| Acrolein | 100 | | **438** | 500.0 | 0 | 87.6 | 1 | 201 | 01/13/2016 |
| Acrylonitrile | 5.0 | | **44.2** | 50.00 | 0 | 88.3 | 74.1 | 128 | 01/13/2016 |
| Allyl chloride | 5.0 | | **46.9** | 50.00 | 0 | 93.8 | 71.5 | 123 | 01/13/2016 |
| Benzene | 2.0 | | **49.6** | 50.00 | 0 | 99.1 | 80 | 114 | 01/13/2016 |
| Bromobenzene | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 73.2 | 118 | 01/13/2016 |
| Bromochloromethane | 5.0 | | **45.9** | 50.00 | 0 | 91.9 | 73.3 | 121 | 01/13/2016 |
| Bromodichloromethane | 5.0 | | **51.1** | 50.00 | 0 | 102.3 | 81.6 | 121 | 01/13/2016 |
| Bromoform | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 83.1 | 127 | 01/13/2016 |
| Bromomethane | 10.0 | | **41.4** | 50.00 | 0 | 82.8 | 44.4 | 154 | 01/13/2016 |
| Carbon disulfide | 5.0 | | **46.3** | 50.00 | 0 | 92.7 | 73.2 | 118 | 01/13/2016 |
| Carbon tetrachloride | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 79.4 | 130 | 01/13/2016 |
| Chlorobenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 81.4 | 110 | 01/13/2016 |
| Chloroethane | 10.0 | | **41.7** | 50.00 | 0 | 83.4 | 52.1 | 137 | 01/13/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608

**Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115601** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **45.8** | 50.00 | 0 | 91.6 | 82.7 | 116 | 01/13/2016 |
| Chloromethane | 10.0 | | **40.5** | 50.00 | 0 | 81.0 | 48.2 | 144 | 01/13/2016 |
| Chloroprene | 20.0 | | **46.8** | 50.00 | 0 | 93.7 | 80.6 | 126 | 01/13/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **47.9** | 50.00 | 0 | 95.9 | 78.2 | 116 | 01/13/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **52.4** | 50.00 | 0 | 104.7 | 83 | 119 | 01/13/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **48.5** | 50.00 | 0 | 96.9 | 60.7 | 137 | 01/13/2016 |
| Cyclohexanone | 50.0 | | **432** | 500.0 | 0 | 86.5 | 54.2 | 145 | 01/13/2016 |
| Dibromochloromethane | 5.0 | | **52.0** | 50.00 | 0 | 103.9 | 81.2 | 121 | 01/13/2016 |
| Dibromomethane | 5.0 | | **48.6** | 50.00 | 0 | 97.2 | 78.3 | 118 | 01/13/2016 |
| Dichlorodifluoromethane | 10.0 | | **37.4** | 50.00 | 0 | 74.8 | 20.6 | 154 | 01/13/2016 |
| Diisopropyl ether | 2.0 | | **48.7** | 50.00 | 0 | 97.4 | 73.1 | 116 | 01/13/2016 |
| Ethyl acetate | 10.0 | | **43.9** | 50.00 | 0 | 87.7 | 73.1 | 116 | 01/13/2016 |
| Ethyl ether | 5.0 | | **43.3** | 50.00 | 0 | 86.7 | 75.2 | 109 | 01/13/2016 |
| Ethyl methacrylate | 5.0 | | **47.5** | 50.00 | 0 | 95.1 | 80.1 | 113 | 01/13/2016 |
| Ethylbenzene | 5.0 | | **48.4** | 50.00 | 0 | 96.9 | 77.2 | 113 | 01/13/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **46.7** | 50.00 | 0 | 93.5 | 75 | 118 | 01/13/2016 |
| Hexachlorobutadiene | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 77.3 | 123 | 01/13/2016 |
| Hexachloroethane | 10.0 | | **51.4** | 50.00 | 0 | 102.8 | 74.6 | 117 | 01/13/2016 |
| Iodomethane | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 61.3 | 140 | 01/13/2016 |
| Isopropylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 81.3 | 114 | 01/13/2016 |
| m,p-Xylenes | 5.0 | | **100** | 100.0 | 0 | 100.5 | 79.6 | 113 | 01/13/2016 |
| Methacrylonitrile | 10.0 | | **44.8** | 50.00 | 0 | 89.6 | 77.2 | 125 | 01/13/2016 |
| Methyl Methacrylate | 5.0 | | **47.7** | 50.00 | 0 | 95.3 | 74.2 | 121 | 01/13/2016 |
| Methyl tert-butyl ether | 2.0 | | **46.8** | 50.00 | 0 | 93.5 | 76.8 | 117 | 01/13/2016 |
| Methylacrylate | 10.0 | | **46.4** | 50.00 | 0 | 92.9 | 78 | 124 | 01/13/2016 |
| Methylene chloride | 5.0 | | **44.9** | 50.00 | 0 | 89.8 | 74.1 | 114 | 01/13/2016 |
| Naphthalene | 10.0 | | **51.9** | 50.00 | 0 | 103.8 | 77.9 | 122 | 01/13/2016 |
| n-Butyl acetate | 25.0 | | **45.0** | 50.00 | 0 | 90.1 | 74 | 120 | 01/13/2016 |
| n-Butylbenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 71.1 | 120 | 01/13/2016 |
| n-Heptane | 20.0 | | **49.2** | 50.00 | 0 | 98.3 | 67.4 | 129 | 01/13/2016 |
| n-Hexane | 20.0 | | **46.5** | 50.00 | 0 | 93.1 | 68.4 | 126 | 01/13/2016 |
| Nitrobenzene | 50.0 | | **404** | 500.0 | 0 | 80.7 | 37.9 | 181 | 01/13/2016 |
| n-Propylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 74.6 | 118 | 01/13/2016 |
| o-Xylene | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 80.1 | 111 | 01/13/2016 |
| Pentachloroethane | 20.0 | | **53.1** | 50.00 | 0 | 106.3 | 78.8 | 117 | 01/13/2016 |
| p-Isopropyltoluene | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 77.6 | 118 | 01/13/2016 |
| Propionitrile | 50.0 | | **448** | 500.0 | 0 | 89.5 | 72.9 | 137 | 01/13/2016 |
| sec-Butylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 74.5 | 119 | 01/13/2016 |
| Styrene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 83.4 | 113 | 01/13/2016 |
| tert-Amyl methyl ether | 2.0 | | **50.7** | 50.00 | 0 | 101.4 | 78.7 | 117 | 01/13/2016 |
| tert-Butyl alcohol | 25.0 | | **214** | 250.0 | 0 | 85.5 | 58.1 | 139 | 01/13/2016 |
| tert-Butylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 75.9 | 114 | 01/13/2016 |
| Tetrachloroethene | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 72.5 | 125 | 01/13/2016 |
| Tetrahydrofuran | 20.0 | | **43.9** | 50.00 | 0 | 87.9 | 69.6 | 125 | 01/13/2016 |
| Toluene | 5.0 | | **47.6** | 50.00 | 0 | 95.2 | 77.5 | 113 | 01/13/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **46.0** | 50.00 | 0 | 92.0 | 79 | 114 | 01/13/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 78 | 115 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115601** **SampType: LCS** Units **µg/L**

SampID: LCS-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **51.4** | 50.00 | 0 | 102.7 | 63.3 | 128 | 01/13/2016 |
| Trichloroethene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 84.4 | 114 | 01/13/2016 |
| Trichlorofluoromethane | 5.0 | | **47.1** | 50.00 | 0 | 94.3 | 75.2 | 132 | 01/13/2016 |
| Vinyl acetate | 10.0 | | **48.9** | 50.00 | 0 | 97.9 | 64.5 | 127 | 01/13/2016 |
| Vinyl chloride | 2.0 | | **42.8** | 50.00 | 0 | 85.6 | 58 | 134 | 01/13/2016 |
| Xylenes, Total | 5.0 | | **150** | 150.0 | 0 | 100.2 | 80.1 | 111 | 01/13/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **94.0** | 100.0 | 0 | 94.0 | 78.2 | 116 | 01/13/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **103** | 100.0 | 0 | 102.8 | 78 | 119 | 01/13/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **99.8** | 100.0 | 0 | 99.8 | 60.7 | 137 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.8** | 50.00 | | 95.6 | 74.7 | 129 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.0** | 50.00 | | 100.1 | 86 | 119 | 01/13/2016 |
| Surr: Toluene-d8 | | | **47.5** | 50.00 | | 95.0 | 84.1 | 114 | 01/13/2016 |

**Batch 115601** **SampType: LCSGD** Units **µg/L** RPD Limit **20**

SampID: LCSGD-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2090** | 2000 | 0 | 104.5 | 2177 | 4.09 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.0** | 50.00 | | 94.0 | | | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.5** | 50.00 | | 101.0 | | | 01/13/2016 |
| Surr: Toluene-d8 | | | **49.3** | 50.00 | | 98.5 | | | 01/13/2016 |

**Batch 115601** **SampType: LCSG** Units **µg/L**

SampID: LCSG-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2180** | 2000 | 0 | 108.9 | 70 | 130 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.0** | 50.00 | | 93.9 | 74.7 | 129 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.8** | 50.00 | | 101.7 | 86 | 119 | 01/13/2016 |
| Surr: Toluene-d8 | | | **49.8** | 50.00 | | 99.5 | 84.3 | 114 | 01/13/2016 |

**Batch 115601** **SampType: MS** Units **µg/L**

SampID: 16010639-002AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 250 | | **2150** | 2500 | 0 | 86.0 | 35.7 | 136 | 01/13/2016 |
| Benzene | 100 | | **6200** | 2500 | 3815 | 95.4 | 62.5 | 121 | 01/13/2016 |
| Chlorobenzene | 250 | | **2360** | 2500 | 0 | 94.4 | 78.6 | 114 | 01/13/2016 |
| Ethylbenzene | 250 | | **2570** | 2500 | 142.0 | 97.0 | 74.4 | 130 | 01/13/2016 |
| m,p-Xylenes | 250 | | **4030** | 2500 | 1558 | 98.9 | 70.5 | 126 | 01/13/2016 |
| o-Xylene | 250 | | **2500** | 2500 | 80.50 | 97.0 | 71.2 | 124 | 01/13/2016 |
| Toluene | 250 | | **2440** | 2500 | 118.5 | 92.8 | 69.5 | 118 | 01/13/2016 |
| Trichloroethene | 250 | | **2410** | 2500 | 0 | 96.3 | 69.4 | 117 | 01/13/2016 |
| Xylenes, Total | 250 | | **6540** | 5000 | 1639 | 97.9 | 71.1 | 125 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **2620** | 2500 | | 104.7 | 74.7 | 129 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **2530** | 2500 | | 101.0 | 86 | 119 | 01/13/2016 |
| Surr: Toluene-d8 | | | **2450** | 2500 | | 98.0 | 84.3 | 114 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115601** **SampType:** **MSD** Units **µg/L** RPD Limit **20**

SampID: 16010639-002AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 250 | | **2240** | 2500 | 0 | 89.5 | 2150 | 4.03 | 01/13/2016 |
| Benzene | 100 | | **6360** | 2500 | 3815 | 101.7 | 6201 | 2.48 | 01/13/2016 |
| Chlorobenzene | 250 | | **2390** | 2500 | 0 | 95.7 | 2360 | 1.39 | 01/13/2016 |
| Ethylbenzene | 250 | | **2660** | 2500 | 142.0 | 100.6 | 2568 | 3.39 | 01/13/2016 |
| m,p-Xylenes | 250 | | **4180** | 2500 | 1558 | 105.0 | 4032 | 3.72 | 01/13/2016 |
| o-Xylene | 250 | | **2560** | 2500 | 80.50 | 99.3 | 2504 | 2.31 | 01/13/2016 |
| Toluene | 250 | | **2470** | 2500 | 118.5 | 93.9 | 2438 | 1.16 | 01/13/2016 |
| Trichloroethene | 250 | | **2490** | 2500 | 0 | 99.5 | 2408 | 3.27 | 01/13/2016 |
| Xylenes, Total | 250 | | **6750** | 5000 | 1639 | 102.2 | 6536 | 3.18 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **2620** | 2500 | | 104.7 | | | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **2530** | 2500 | | 101.3 | | | 01/13/2016 |
| Surr: Toluene-d8 | | | **2470** | 2500 | | 98.7 | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Acetone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Acetonitrile | 100 | | **ND** | | | | | | 01/13/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/13/2016 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Benzene | 1.0 | | **ND** | | | | | | 01/13/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Chloroform | 5.0 | | **ND** | | | | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/13/2016 |
| Cyclohexanone | 100 | | **ND** | | | | | | 01/13/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Iodomethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/13/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Methylene chloride | 5.0 | J | **1.0** | | | | | | 01/13/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/13/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/13/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/13/2016 |
| Nitrobenzene | 100 | | **ND** | | | | | | 01/13/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/13/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 01/13/2016 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 01/13/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/13/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/13/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.1** | 50.00 | | 100.1 | 72.2 | 131 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.8** | 50.00 | | 99.7 | 82.1 | 116 | 01/13/2016 |
| Surr: Toluene-d8 | | | **48.8** | 50.00 | | 97.5 | 86 | 116 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 83.1 | 114 | 01/13/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **54.0** | 50.00 | 0 | 107.9 | 78.5 | 119 | 01/13/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.2** | 50.00 | 0 | 96.5 | 67.4 | 120 | 01/13/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **58.7** | 50.00 | 0 | 117.5 | 75.4 | 121 | 01/13/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 81.1 | 111 | 01/13/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **104** | 125.0 | 0 | 83.0 | 55.4 | 131 | 01/13/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 80.1 | 116 | 01/13/2016 |
| 1,1-Dichloroethene | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 73.1 | 121 | 01/13/2016 |
| 1,1-Dichloropropene | 5.0 | | **55.1** | 50.00 | 0 | 110.3 | 82.2 | 114 | 01/13/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **56.6** | 50.00 | 0 | 113.1 | 81.7 | 130 | 01/13/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **48.6** | 50.00 | 0 | 97.1 | 67.8 | 118 | 01/13/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.9 | 82.1 | 127 | 01/13/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **59.3** | 50.00 | 0 | 118.6 | 72.3 | 141 | 01/13/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **56.9** | 50.00 | 0 | 113.8 | 79.7 | 123 | 01/13/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **43.1** | 50.00 | 0 | 86.3 | 62.1 | 123 | 01/13/2016 |
| 1,2-Dibromoethane | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 82.4 | 112 | 01/13/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **54.8** | 50.00 | 0 | 109.5 | 82.7 | 119 | 01/13/2016 |
| 1,2-Dichloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 72.8 | 120 | 01/13/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.1** | 50.00 | 0 | 102.3 | 80 | 116 | 01/13/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **54.4** | 50.00 | 0 | 108.7 | 81.5 | 125 | 01/13/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **57.5** | 50.00 | 0 | 115.0 | 82 | 124 | 01/13/2016 |
| 1,3-Dichloropropane | 5.0 | | **49.0** | 50.00 | 0 | 97.9 | 79.8 | 113 | 01/13/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **56.4** | 50.00 | 0 | 112.8 | 81.1 | 124 | 01/13/2016 |
| 1-Chlorobutane | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 77.2 | 113 | 01/13/2016 |
| 2,2-Dichloropropane | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 76.6 | 121 | 01/13/2016 |
| 2-Butanone | 50.0 | | **99.7** | 125.0 | 0 | 79.8 | 62.8 | 131 | 01/13/2016 |
| 2-Chlorotoluene | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 78.8 | 121 | 01/13/2016 |
| 2-Hexanone | 50.0 | | **93.2** | 125.0 | 0 | 74.6 | 63.1 | 125 | 01/13/2016 |
| 2-Nitropropane | 50.0 | | **492** | 500.0 | 0 | 98.5 | 61.2 | 129 | 01/13/2016 |
| 4-Chlorotoluene | 5.0 | | **55.9** | 50.00 | 0 | 111.8 | 77.6 | 124 | 01/13/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **113** | 125.0 | 0 | 90.4 | 60.6 | 126 | 01/13/2016 |
| Acetone | 50.0 | | **110** | 125.0 | 0 | 88.1 | 39.5 | 159 | 01/13/2016 |
| Acetonitrile | 100 | | **489** | 500.0 | 0 | 97.8 | 64.8 | 123 | 01/13/2016 |
| Acrolein | 100 | | **457** | 500.0 | 0 | 91.4 | 1 | 167 | 01/13/2016 |
| Acrylonitrile | 10.0 | | **47.8** | 50.00 | 0 | 95.5 | 67 | 124 | 01/13/2016 |
| Allyl chloride | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 58.5 | 129 | 01/13/2016 |
| Benzene | 1.0 | | **53.9** | 50.00 | 0 | 107.8 | 80.8 | 117 | 01/13/2016 |
| Bromobenzene | 5.0 | | **51.0** | 50.00 | 0 | 102.1 | 79.6 | 117 | 01/13/2016 |
| Bromochloromethane | 5.0 | | **48.9** | 50.00 | 0 | 97.9 | 70.7 | 121 | 01/13/2016 |
| Bromodichloromethane | 5.0 | | **51.1** | 50.00 | 0 | 102.1 | 80.7 | 121 | 01/13/2016 |
| Bromoform | 5.0 | | **54.8** | 50.00 | 0 | 109.7 | 79.8 | 118 | 01/13/2016 |
| Bromomethane | 10.0 | | **55.5** | 50.00 | 0 | 110.9 | 1 | 175 | 01/13/2016 |
| Carbon disulfide | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 62.8 | 123 | 01/13/2016 |
| Carbon tetrachloride | 5.0 | | **56.0** | 50.00 | 0 | 112.1 | 77.6 | 123 | 01/13/2016 |
| Chlorobenzene | 5.0 | | **54.3** | 50.00 | 0 | 108.7 | 85.6 | 116 | 01/13/2016 |
| Chloroethane | 10.0 | | **53.0** | 50.00 | 0 | 106.0 | 60.2 | 125 | 01/13/2016 |
| Chloroform | 5.0 | | **53.2** | 50.00 | 0 | 106.3 | 77.9 | 116 | 01/13/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16010608

**Client Project:** NGA 2015-0461.21

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **44.7** | 50.00 | 0 | 89.4 | 29.9 | 157 | 01/13/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **51.1** | 50.00 | 0 | 102.3 | 80.1 | 116 | 01/13/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **52.7** | 50.00 | 0 | 105.4 | 80.5 | 121 | 01/13/2016 |
| Cyclohexanone | 100 | | **415** | 500.0 | 0 | 83.0 | 45.4 | 128 | 01/13/2016 |
| Dibromochloromethane | 5.0 | | **52.5** | 50.00 | 0 | 105.1 | 84.3 | 116 | 01/13/2016 |
| Dibromomethane | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 76.6 | 115 | 01/13/2016 |
| Dichlorodifluoromethane | 10.0 | | **45.8** | 50.00 | 0 | 91.6 | 1 | 200 | 01/13/2016 |
| Diisopropyl ether | 5.0 | | **46.6** | 50.00 | 0 | 93.1 | 73.6 | 119 | 01/13/2016 |
| Ethyl ether | 5.0 | | **48.1** | 50.00 | 0 | 96.1 | 73.4 | 116 | 01/13/2016 |
| Ethyl methacrylate | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 76.2 | 120 | 01/13/2016 |
| Ethylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 84.8 | 116 | 01/13/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **47.7** | 50.00 | 0 | 95.4 | 73.8 | 119 | 01/13/2016 |
| Hexachlorobutadiene | 5.0 | | **59.6** | 50.00 | 0 | 119.2 | 74 | 135 | 01/13/2016 |
| Hexachloroethane | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 76.4 | 121 | 01/13/2016 |
| Iodomethane | 10.0 | | **64.7** | 50.00 | 0 | 129.5 | 38.7 | 161 | 01/13/2016 |
| Isopropylbenzene | 5.0 | | **52.5** | 50.00 | 0 | 105.1 | 85 | 125 | 01/13/2016 |
| m,p-Xylenes | 5.0 | | **109** | 100.0 | 0 | 109.0 | 85.3 | 120 | 01/13/2016 |
| Methacrylonitrile | 50.0 | J | **46** | 50.00 | 0 | 92.9 | 65.7 | 120 | 01/13/2016 |
| Methyl Methacrylate | 5.0 | | **46.0** | 50.00 | 0 | 92.1 | 69.1 | 114 | 01/13/2016 |
| Methyl tert-butyl ether | 2.0 | | **48.0** | 50.00 | 0 | 95.9 | 66.6 | 125 | 01/13/2016 |
| Methylacrylate | 10.0 | | **50.4** | 50.00 | 0 | 100.9 | 69.7 | 121 | 01/13/2016 |
| Methylene chloride | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 73.4 | 115 | 01/13/2016 |
| Naphthalene | 10.0 | | **50.0** | 50.00 | 0 | 100.0 | 70.1 | 134 | 01/13/2016 |
| n-Butylbenzene | 5.0 | | **59.1** | 50.00 | 0 | 118.3 | 78.4 | 138 | 01/13/2016 |
| n-Heptane | 20.0 | | **56.1** | 50.00 | 0 | 112.2 | 74.3 | 125 | 01/13/2016 |
| n-Hexane | 20.0 | | **58.8** | 50.00 | 0 | 117.6 | 66.3 | 129 | 01/13/2016 |
| Nitrobenzene | 100 | | **436** | 500.0 | 0 | 87.1 | 20.1 | 165 | 01/13/2016 |
| n-Propylbenzene | 5.0 | | **57.2** | 50.00 | 0 | 114.4 | 79.1 | 125 | 01/13/2016 |
| o-Xylene | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 81.9 | 118 | 01/13/2016 |
| Pentachloroethane | 5.0 | | **56.6** | 50.00 | 0 | 113.2 | 72.7 | 123 | 01/13/2016 |
| p-Isopropyltoluene | 5.0 | | **55.9** | 50.00 | 0 | 111.8 | 82.7 | 129 | 01/13/2016 |
| Propionitrile | 50.0 | | **498** | 500.0 | 0 | 99.6 | 64.3 | 121 | 01/13/2016 |
| sec-Butylbenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 81.3 | 125 | 01/13/2016 |
| Styrene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 88.2 | 122 | 01/13/2016 |
| tert-Amyl methyl ether | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 74.5 | 120 | 01/13/2016 |
| tert-Butyl alcohol | 50.0 | | **233** | 250.0 | 0 | 93.2 | 51.3 | 129 | 01/13/2016 |
| tert-Butylbenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.7 | 74.8 | 125 | 01/13/2016 |
| Tetrachloroethene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 84.2 | 122 | 01/13/2016 |
| Tetrahydrofuran | 50.0 | J | **45** | 50.00 | 0 | 90.6 | 61 | 118 | 01/13/2016 |
| Toluene | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 81.3 | 113 | 01/13/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 78.2 | 118 | 01/13/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **50.9** | 50.00 | 0 | 101.8 | 81.7 | 124 | 01/13/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **47.7** | 50.00 | 0 | 95.4 | 63.9 | 117 | 01/13/2016 |
| Trichloroethene | 5.0 | | **55.8** | 50.00 | 0 | 111.7 | 81 | 123 | 01/13/2016 |
| Trichlorofluoromethane | 5.0 | | **55.6** | 50.00 | 0 | 111.3 | 66.8 | 131 | 01/13/2016 |
| Vinyl acetate | 50.0 | J | **50** | 50.00 | 0 | 100.0 | 64.3 | 122 | 01/13/2016 |
| Vinyl chloride | 2.0 | | **50.4** | 50.00 | 0 | 100.8 | 45.2 | 140 | 01/13/2016 |

# Quality Control Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608
**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **163** | 150.0 | 0 | 108.5 | 85.3 | 118 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.2** | 50.00 | | 94.5 | 72.2 | 131 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.4 | 82.1 | 116 | 01/13/2016 |
| Surr: Toluene-d8 | | | **47.7** | 50.00 | | 95.4 | 86 | 116 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 51.51 | 2.42 | 01/13/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 53.95 | 0.43 | 01/13/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 48.24 | 5.25 | 01/13/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **58.1** | 50.00 | 0 | 116.3 | 58.73 | 1.01 | 01/13/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 49.84 | 1.32 | 01/13/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **121** | 125.0 | 0 | 96.7 | 103.7 | 15.25 | 01/13/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 53.58 | 0.32 | 01/13/2016 |
| 1,1-Dichloroethene | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 53.23 | 0.77 | 01/13/2016 |
| 1,1-Dichloropropene | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 55.13 | 0.78 | 01/13/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **56.7** | 50.00 | 0 | 113.4 | 56.55 | 0.23 | 01/13/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **50.8** | 50.00 | 0 | 101.5 | 48.55 | 4.45 | 01/13/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 50.44 | 1.34 | 01/13/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **59.6** | 50.00 | 0 | 119.2 | 59.32 | 0.50 | 01/13/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **54.8** | 50.00 | 0 | 109.6 | 56.89 | 3.78 | 01/13/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **49.7** | 50.00 | 0 | 99.3 | 43.14 | 14.07 | 01/13/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 48.01 | 3.92 | 01/13/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.1 | 54.75 | 1.25 | 01/13/2016 |
| 1,2-Dichloroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 50.30 | 1.87 | 01/13/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.7** | 50.00 | 0 | 103.5 | 51.13 | 1.17 | 01/13/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 54.35 | 3.52 | 01/13/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **56.2** | 50.00 | 0 | 112.5 | 57.51 | 2.25 | 01/13/2016 |
| 1,3-Dichloropropane | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 48.96 | 1.06 | 01/13/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.5 | 56.42 | 1.16 | 01/13/2016 |
| 1-Chlorobutane | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 52.10 | 1.02 | 01/13/2016 |
| 2,2-Dichloropropane | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 54.51 | 0.87 | 01/13/2016 |
| 2-Butanone | 50.0 | | **114** | 125.0 | 0 | 91.4 | 99.72 | 13.62 | 01/13/2016 |
| 2-Chlorotoluene | 5.0 | | **54.6** | 50.00 | 0 | 109.1 | 55.49 | 1.69 | 01/13/2016 |
| 2-Hexanone | 50.0 | | **105** | 125.0 | 0 | 84.2 | 93.21 | 12.10 | 01/13/2016 |
| 2-Nitropropane | 50.0 | | **559** | 500.0 | 0 | 111.7 | 492.3 | 12.63 | 01/13/2016 |
| 4-Chlorotoluene | 5.0 | | **55.3** | 50.00 | 0 | 110.5 | 55.88 | 1.12 | 01/13/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **126** | 125.0 | 0 | 100.6 | 113.0 | 10.67 | 01/13/2016 |
| Acetone | 50.0 | | **125** | 125.0 | 0 | 99.6 | 110.1 | 12.33 | 01/13/2016 |
| Acetonitrile | 100 | | **549** | 500.0 | 0 | 109.7 | 488.9 | 11.52 | 01/13/2016 |
| Acrolein | 100 | | **510** | 500.0 | 0 | 101.9 | 456.8 | 10.93 | 01/13/2016 |
| Acrylonitrile | 10.0 | | **52.1** | 50.00 | 0 | 104.1 | 47.76 | 8.62 | 01/13/2016 |
| Allyl chloride | 5.0 | | **48.8** | 50.00 | 0 | 97.7 | 49.12 | 0.55 | 01/13/2016 |
| Benzene | 1.0 | | **53.9** | 50.00 | 0 | 107.8 | 53.91 | 0.02 | 01/13/2016 |
| Bromobenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 51.04 | 0.71 | 01/13/2016 |
| Bromochloromethane | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 48.94 | 2.64 | 01/13/2016 |
| Bromodichloromethane | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 51.07 | 1.23 | 01/13/2016 |
| Bromoform | 5.0 | | **56.3** | 50.00 | 0 | 112.6 | 54.85 | 2.64 | 01/13/2016 |
| Bromomethane | 10.0 | | **55.9** | 50.00 | 0 | 111.8 | 55.46 | 0.75 | 01/13/2016 |
| Carbon disulfide | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 53.27 | 0.32 | 01/13/2016 |
| Carbon tetrachloride | 5.0 | | **55.6** | 50.00 | 0 | 111.1 | 56.03 | 0.82 | 01/13/2016 |
| Chlorobenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 54.33 | 1.30 | 01/13/2016 |
| Chloroethane | 10.0 | | **53.6** | 50.00 | 0 | 107.2 | 53.00 | 1.14 | 01/13/2016 |
| Chloroform | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 53.16 | 0.21 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **45.7** | 50.00 | 0 | 91.5 | 44.68 | 2.34 | 01/13/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 51.14 | 0.97 | 01/13/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **53.1** | 50.00 | 0 | 106.2 | 52.71 | 0.76 | 01/13/2016 |
| Cyclohexanone | 100 | | **475** | 500.0 | 0 | 95.0 | 415.1 | 13.48 | 01/13/2016 |
| Dibromochloromethane | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 52.53 | 0.25 | 01/13/2016 |
| Dibromomethane | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 51.39 | 2.99 | 01/13/2016 |
| Dichlorodifluoromethane | 10.0 | | **45.1** | 50.00 | 0 | 90.2 | 45.80 | 1.58 | 01/13/2016 |
| Diisopropyl ether | 5.0 | | **47.2** | 50.00 | 0 | 94.5 | 46.57 | 1.41 | 01/13/2016 |
| Ethyl ether | 5.0 | | **49.4** | 50.00 | 0 | 98.7 | 48.06 | 2.65 | 01/13/2016 |
| Ethyl methacrylate | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 48.28 | 4.63 | 01/13/2016 |
| Ethylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.6 | 51.60 | 1.52 | 01/13/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 47.71 | 2.85 | 01/13/2016 |
| Hexachlorobutadiene | 5.0 | | **59.7** | 50.00 | 0 | 119.4 | 59.58 | 0.20 | 01/13/2016 |
| Hexachloroethane | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 52.34 | 1.85 | 01/13/2016 |
| Iodomethane | 10.0 | | **65.3** | 50.00 | 0 | 130.5 | 64.73 | 0.83 | 01/13/2016 |
| Isopropylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 52.54 | 1.42 | 01/13/2016 |
| m,p-Xylenes | 5.0 | | **108** | 100.0 | 0 | 108.4 | 109.0 | 0.51 | 01/13/2016 |
| Methacrylonitrile | 50.0 | | **51.1** | 50.00 | 0 | 102.3 | 46.43 | 9.65 | 01/13/2016 |
| Methyl Methacrylate | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 46.04 | 7.53 | 01/13/2016 |
| Methyl tert-butyl ether | 2.0 | | **50.3** | 50.00 | 0 | 100.6 | 47.97 | 4.76 | 01/13/2016 |
| Methylacrylate | 10.0 | | **56.3** | 50.00 | 0 | 112.5 | 50.43 | 10.95 | 01/13/2016 |
| Methylene chloride | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 50.95 | 0.94 | 01/13/2016 |
| Naphthalene | 10.0 | | **53.9** | 50.00 | 0 | 107.8 | 50.02 | 7.47 | 01/13/2016 |
| n-Butylbenzene | 5.0 | | **56.8** | 50.00 | 0 | 113.5 | 59.14 | 4.12 | 01/13/2016 |
| n-Heptane | 20.0 | | **53.6** | 50.00 | 0 | 107.3 | 56.12 | 4.54 | 01/13/2016 |
| n-Hexane | 20.0 | | **56.7** | 50.00 | 0 | 113.4 | 58.80 | 3.62 | 01/13/2016 |
| Nitrobenzene | 100 | | **510** | 500.0 | 0 | 102.0 | 435.5 | 15.76 | 01/13/2016 |
| n-Propylbenzene | 5.0 | | **55.5** | 50.00 | 0 | 111.1 | 57.20 | 2.96 | 01/13/2016 |
| o-Xylene | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 53.86 | 1.55 | 01/13/2016 |
| Pentachloroethane | 5.0 | | **54.4** | 50.00 | 0 | 108.7 | 56.61 | 4.06 | 01/13/2016 |
| p-Isopropyltoluene | 5.0 | | **53.9** | 50.00 | 0 | 107.9 | 55.90 | 3.57 | 01/13/2016 |
| Propionitrile | 50.0 | | **563** | 500.0 | 0 | 112.6 | 497.9 | 12.29 | 01/13/2016 |
| sec-Butylbenzene | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 54.25 | 2.41 | 01/13/2016 |
| Styrene | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 54.31 | 0.52 | 01/13/2016 |
| tert-Amyl methyl ether | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 48.82 | 4.52 | 01/13/2016 |
| tert-Butyl alcohol | 50.0 | | **272** | 250.0 | 0 | 108.7 | 232.9 | 15.37 | 01/13/2016 |
| tert-Butylbenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 55.85 | 4.13 | 01/13/2016 |
| Tetrachloroethene | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 52.08 | 1.22 | 01/13/2016 |
| Tetrahydrofuran | 50.0 | | **51.8** | 50.00 | 0 | 103.6 | 45.29 | 13.37 | 01/13/2016 |
| Toluene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 52.93 | 2.56 | 01/13/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **53.6** | 50.00 | 0 | 107.1 | 53.51 | 0.11 | 01/13/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **51.7** | 50.00 | 0 | 103.4 | 50.89 | 1.60 | 01/13/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 47.70 | 4.37 | 01/13/2016 |
| Trichloroethene | 5.0 | | **55.4** | 50.00 | 0 | 110.9 | 55.84 | 0.74 | 01/13/2016 |
| Trichlorofluoromethane | 5.0 | | **55.3** | 50.00 | 0 | 110.7 | 55.63 | 0.54 | 01/13/2016 |
| Vinyl acetate | 50.0 | | **52.6** | 50.00 | 0 | 105.2 | 49.99 | 5.13 | 01/13/2016 |
| Vinyl chloride | 2.0 | | **50.2** | 50.00 | 0 | 100.4 | 50.41 | 0.46 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115581** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **161** | 150.0 | 0 | 107.6 | 162.8 | 0.85 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.3** | 50.00 | | 98.6 | | | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.0** | 50.00 | | 100.0 | | | 01/13/2016 |
| Surr: Toluene-d8 | | | **46.7** | 50.00 | | 93.4 | | | 01/13/2016 |

**Batch 115581** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2180** | 2000 | 0 | 109.1 | 70 | 130 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.0** | 50.00 | | 96.1 | 72.2 | 131 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.3** | 50.00 | | 98.7 | 82.1 | 116 | 01/13/2016 |
| Surr: Toluene-d8 | | | **49.7** | 50.00 | | 99.5 | 86 | 116 | 01/13/2016 |

**Batch 115581** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2160** | 2000 | 0 | 108.2 | 2182 | 0.82 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.3** | 50.00 | | 98.5 | | | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.8** | 50.00 | | 99.5 | | | 01/13/2016 |
| Surr: Toluene-d8 | | | **49.5** | 50.00 | | 99.1 | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115619** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Acetone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Acetonitrile | 100 | | **ND** | | | | | | 01/14/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/14/2016 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Benzene | 1.0 | | **ND** | | | | | | 01/14/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Chloroform | 5.0 | | **ND** | | | | | | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115619** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/14/2016 |
| Cyclohexanone | 100 | | **ND** | | | | | | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Iodomethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/14/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Methylene chloride | 5.0 | J | **1.0** | | | | | | 01/14/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/14/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/14/2016 |
| Nitrobenzene | 100 | | **ND** | | | | | | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 01/14/2016 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/14/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115619** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/14/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.1** | 50.00 | | 96.2 | 72.2 | 131 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.5** | 50.00 | | 99.1 | 82.1 | 116 | 01/14/2016 |
| Surr: Toluene-d8 | | | **48.9** | 50.00 | | 97.8 | 86 | 116 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115619** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 83.1 | 114 | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 78.5 | 119 | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 67.4 | 120 | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **57.8** | 50.00 | 0 | 115.5 | 75.4 | 121 | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 81.1 | 111 | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **112** | 125.0 | 0 | 90.0 | 55.4 | 131 | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 80.1 | 116 | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **51.3** | 50.00 | 0 | 102.5 | 73.1 | 121 | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 82.2 | 114 | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.7 | 81.7 | 130 | 01/14/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **49.8** | 50.00 | 0 | 99.6 | 67.8 | 118 | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.2** | 50.00 | 0 | 98.3 | 82.1 | 127 | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **58.4** | 50.00 | 0 | 116.8 | 72.3 | 141 | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **55.0** | 50.00 | 0 | 110.0 | 79.7 | 123 | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **45.9** | 50.00 | 0 | 91.7 | 62.1 | 123 | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 82.4 | 112 | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **53.0** | 50.00 | 0 | 106.0 | 82.7 | 119 | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 72.8 | 120 | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 80 | 116 | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 81.5 | 125 | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **55.0** | 50.00 | 0 | 109.9 | 82 | 124 | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 79.8 | 113 | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **54.4** | 50.00 | 0 | 108.9 | 81.1 | 124 | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 77.2 | 113 | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 76.6 | 121 | 01/14/2016 |
| 2-Butanone | 50.0 | | **103** | 125.0 | 0 | 82.5 | 62.8 | 131 | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 78.8 | 121 | 01/14/2016 |
| 2-Hexanone | 50.0 | | **96.0** | 125.0 | 0 | 76.8 | 63.1 | 125 | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **515** | 500.0 | 0 | 103.0 | 61.2 | 129 | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 77.6 | 124 | 01/14/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **119** | 125.0 | 0 | 94.9 | 60.6 | 126 | 01/14/2016 |
| Acetone | 50.0 | | **111** | 125.0 | 0 | 88.6 | 39.5 | 159 | 01/14/2016 |
| Acetonitrile | 100 | | **497** | 500.0 | 0 | 99.5 | 64.8 | 123 | 01/14/2016 |
| Acrolein | 100 | | **527** | 500.0 | 0 | 105.5 | 1 | 167 | 01/14/2016 |
| Acrylonitrile | 10.0 | | **49.7** | 50.00 | 0 | 99.4 | 67 | 124 | 01/14/2016 |
| Allyl chloride | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 58.5 | 129 | 01/14/2016 |
| Benzene | 1.0 | | **53.4** | 50.00 | 0 | 106.8 | 80.8 | 117 | 01/14/2016 |
| Bromobenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 79.6 | 117 | 01/14/2016 |
| Bromochloromethane | 5.0 | | **47.6** | 50.00 | 0 | 95.1 | 70.7 | 121 | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 80.7 | 121 | 01/14/2016 |
| Bromoform | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 79.8 | 118 | 01/14/2016 |
| Bromomethane | 10.0 | | **50.9** | 50.00 | 0 | 101.8 | 1 | 175 | 01/14/2016 |
| Carbon disulfide | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 62.8 | 123 | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **56.1** | 50.00 | 0 | 112.1 | 77.6 | 123 | 01/14/2016 |
| Chlorobenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 85.6 | 116 | 01/14/2016 |
| Chloroethane | 10.0 | | **51.4** | 50.00 | 0 | 102.8 | 60.2 | 125 | 01/14/2016 |
| Chloroform | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 77.9 | 116 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115619** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **39.8** | 50.00 | 0 | 79.5 | 29.9 | 157 | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 80.1 | 116 | 01/14/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **52.4** | 50.00 | 0 | 104.8 | 80.5 | 121 | 01/14/2016 |
| Cyclohexanone | 100 | | **441** | 500.0 | 0 | 88.2 | 45.4 | 128 | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **52.1** | 50.00 | 0 | 104.1 | 84.3 | 116 | 01/14/2016 |
| Dibromomethane | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 76.6 | 115 | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **38.5** | 50.00 | 0 | 77.1 | 1 | 200 | 01/14/2016 |
| Diisopropyl ether | 5.0 | | **46.0** | 50.00 | 0 | 92.1 | 73.6 | 119 | 01/14/2016 |
| Ethyl ether | 5.0 | | **48.3** | 50.00 | 0 | 96.5 | 73.4 | 116 | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 76.2 | 120 | 01/14/2016 |
| Ethylbenzene | 5.0 | | **50.1** | 50.00 | 0 | 100.3 | 84.8 | 116 | 01/14/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **47.9** | 50.00 | 0 | 95.9 | 73.8 | 119 | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **58.1** | 50.00 | 0 | 116.2 | 74 | 135 | 01/14/2016 |
| Hexachloroethane | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 76.4 | 121 | 01/14/2016 |
| Iodomethane | 10.0 | | **63.8** | 50.00 | 0 | 127.5 | 38.7 | 161 | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 85 | 125 | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **106** | 100.0 | 0 | 106.4 | 85.3 | 120 | 01/14/2016 |
| Methacrylonitrile | 50.0 | J | **48** | 50.00 | 0 | 95.0 | 65.7 | 120 | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **47.6** | 50.00 | 0 | 95.3 | 69.1 | 114 | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **48.9** | 50.00 | 0 | 97.8 | 66.6 | 125 | 01/14/2016 |
| Methylacrylate | 10.0 | | **53.4** | 50.00 | 0 | 106.8 | 69.7 | 121 | 01/14/2016 |
| Methylene chloride | 5.0 | | **48.8** | 50.00 | 0 | 97.7 | 73.4 | 115 | 01/14/2016 |
| Naphthalene | 10.0 | | **51.6** | 50.00 | 0 | 103.2 | 70.1 | 134 | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **56.0** | 50.00 | 0 | 112.1 | 78.4 | 138 | 01/14/2016 |
| n-Heptane | 20.0 | | **53.7** | 50.00 | 0 | 107.4 | 74.3 | 125 | 01/14/2016 |
| n-Hexane | 20.0 | | **56.4** | 50.00 | 0 | 112.8 | 66.3 | 129 | 01/14/2016 |
| Nitrobenzene | 100 | | **471** | 500.0 | 0 | 94.2 | 20.1 | 165 | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **55.2** | 50.00 | 0 | 110.3 | 79.1 | 125 | 01/14/2016 |
| o-Xylene | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 81.9 | 118 | 01/14/2016 |
| Pentachloroethane | 5.0 | | **51.0** | 50.00 | 0 | 102.1 | 72.7 | 123 | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 82.7 | 129 | 01/14/2016 |
| Propionitrile | 50.0 | | **517** | 500.0 | 0 | 103.3 | 64.3 | 121 | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 81.3 | 125 | 01/14/2016 |
| Styrene | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 88.2 | 122 | 01/14/2016 |
| tert-Amyl methyl ether | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 74.5 | 120 | 01/14/2016 |
| tert-Butyl alcohol | 50.0 | | **255** | 250.0 | 0 | 102.1 | 51.3 | 129 | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 74.8 | 125 | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **55.0** | 50.00 | 0 | 110.0 | 84.2 | 122 | 01/14/2016 |
| Tetrahydrofuran | 50.0 | J | **45** | 50.00 | 0 | 89.8 | 61 | 118 | 01/14/2016 |
| Toluene | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 81.3 | 113 | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 78.2 | 118 | 01/14/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **50.4** | 50.00 | 0 | 100.9 | 81.7 | 124 | 01/14/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 63.9 | 117 | 01/14/2016 |
| Trichloroethene | 5.0 | | **56.0** | 50.00 | 0 | 112.0 | 81 | 123 | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 66.8 | 131 | 01/14/2016 |
| Vinyl acetate | 50.0 | | **51.0** | 50.00 | 0 | 102.0 | 64.3 | 122 | 01/14/2016 |
| Vinyl chloride | 2.0 | | **46.0** | 50.00 | 0 | 92.1 | 45.2 | 140 | 01/14/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115619** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **158** | 150.0 | 0 | 105.4 | 85.3 | 118 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.4** | 50.00 | | 94.8 | 72.2 | 131 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.1** | 50.00 | | 100.1 | 82.1 | 116 | 01/14/2016 |
| Surr: Toluene-d8 | | | **47.7** | 50.00 | | 95.3 | 86 | 116 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115619** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 50.51 | 0.22 | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 54.16 | 1.66 | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 49.03 | 2.04 | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **57.0** | 50.00 | 0 | 114.0 | 57.77 | 1.38 | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 49.93 | 1.33 | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **119** | 125.0 | 0 | 95.0 | 112.5 | 5.40 | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 52.96 | 0.41 | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 51.26 | 1.22 | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 54.68 | 1.79 | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **57.9** | 50.00 | 0 | 115.9 | 55.83 | 3.69 | 01/14/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **52.1** | 50.00 | 0 | 104.3 | 49.79 | 4.61 | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 49.15 | 0.69 | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **60.1** | 50.00 | 0 | 120.3 | 58.38 | 2.97 | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 55.02 | 0.60 | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 45.86 | 9.35 | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 49.11 | 1.74 | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 52.98 | 0.41 | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 50.05 | 0.50 | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 50.98 | 0.04 | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 52.95 | 0.25 | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **54.9** | 50.00 | 0 | 109.7 | 54.95 | 0.16 | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 48.68 | 1.08 | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 54.43 | 0.13 | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 51.18 | 0.90 | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 53.51 | 0.41 | 01/14/2016 |
| 2-Butanone | 50.0 | | **109** | 125.0 | 0 | 87.1 | 103.2 | 5.36 | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 53.61 | 0.24 | 01/14/2016 |
| 2-Hexanone | 50.0 | | **102** | 125.0 | 0 | 81.6 | 95.97 | 6.04 | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **548** | 500.0 | 0 | 109.6 | 515.2 | 6.16 | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 54.00 | 1.08 | 01/14/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **125** | 125.0 | 0 | 100.2 | 118.7 | 5.39 | 01/14/2016 |
| Acetone | 50.0 | | **116** | 125.0 | 0 | 92.5 | 110.8 | 4.28 | 01/14/2016 |
| Acetonitrile | 100 | | **535** | 500.0 | 0 | 107.0 | 497.4 | 7.28 | 01/14/2016 |
| Acrolein | 100 | | **576** | 500.0 | 0 | 115.3 | 527.5 | 8.86 | 01/14/2016 |
| Acrylonitrile | 10.0 | | **51.6** | 50.00 | 0 | 103.3 | 49.69 | 3.87 | 01/14/2016 |
| Allyl chloride | 5.0 | | **47.1** | 50.00 | 0 | 94.3 | 46.81 | 0.68 | 01/14/2016 |
| Benzene | 1.0 | | **53.3** | 50.00 | 0 | 106.7 | 53.39 | 0.09 | 01/14/2016 |
| Bromobenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 49.77 | 0.04 | 01/14/2016 |
| Bromochloromethane | 5.0 | | **48.9** | 50.00 | 0 | 97.7 | 47.57 | 2.70 | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 50.49 | 0.85 | 01/14/2016 |
| Bromoform | 5.0 | | **56.0** | 50.00 | 0 | 112.1 | 54.18 | 3.39 | 01/14/2016 |
| Bromomethane | 10.0 | | **50.5** | 50.00 | 0 | 101.0 | 50.90 | 0.81 | 01/14/2016 |
| Carbon disulfide | 5.0 | | **50.9** | 50.00 | 0 | 101.9 | 51.28 | 0.67 | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **55.2** | 50.00 | 0 | 110.4 | 56.07 | 1.58 | 01/14/2016 |
| Chlorobenzene | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 53.27 | 0.30 | 01/14/2016 |
| Chloroethane | 10.0 | | **51.2** | 50.00 | 0 | 102.4 | 51.41 | 0.41 | 01/14/2016 |
| Chloroform | 5.0 | | **52.4** | 50.00 | 0 | 104.7 | 52.62 | 0.48 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115619** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **41.2** | 50.00 | 0 | 82.4 | 39.76 | 3.51 | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 49.94 | 0.62 | 01/14/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **52.0** | 50.00 | 0 | 103.9 | 52.38 | 0.79 | 01/14/2016 |
| Cyclohexanone | 100 | | **495** | 500.0 | 0 | 98.9 | 441.0 | 11.43 | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 52.07 | 1.07 | 01/14/2016 |
| Dibromomethane | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 51.70 | 1.23 | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **38.3** | 50.00 | 0 | 76.5 | 38.54 | 0.70 | 01/14/2016 |
| Diisopropyl ether | 5.0 | | **46.0** | 50.00 | 0 | 92.0 | 46.03 | 0.04 | 01/14/2016 |
| Ethyl ether | 5.0 | | **48.6** | 50.00 | 0 | 97.1 | 48.27 | 0.60 | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 49.77 | 3.14 | 01/14/2016 |
| Ethylbenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 50.14 | 0.48 | 01/14/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **47.6** | 50.00 | 0 | 95.2 | 47.93 | 0.71 | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **58.8** | 50.00 | 0 | 117.6 | 58.12 | 1.20 | 01/14/2016 |
| Hexachloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 50.70 | 0.30 | 01/14/2016 |
| Iodomethane | 10.0 | | **63.2** | 50.00 | 0 | 126.3 | 63.75 | 0.91 | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.7 | 50.88 | 0.02 | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **107** | 100.0 | 0 | 106.7 | 106.4 | 0.36 | 01/14/2016 |
| Methacrylonitrile | 50.0 | J | **49** | 50.00 | 0 | 98.5 | 47.49 | 0.00 | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 47.64 | 3.91 | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **49.7** | 50.00 | 0 | 99.3 | 48.91 | 1.52 | 01/14/2016 |
| Methylacrylate | 10.0 | | **55.7** | 50.00 | 0 | 111.3 | 53.41 | 4.13 | 01/14/2016 |
| Methylene chloride | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 48.83 | 1.63 | 01/14/2016 |
| Naphthalene | 10.0 | | **55.0** | 50.00 | 0 | 109.9 | 51.60 | 6.32 | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **55.7** | 50.00 | 0 | 111.3 | 56.04 | 0.66 | 01/14/2016 |
| n-Heptane | 20.0 | | **53.2** | 50.00 | 0 | 106.3 | 53.68 | 0.99 | 01/14/2016 |
| n-Hexane | 20.0 | | **54.7** | 50.00 | 0 | 109.4 | 56.42 | 3.08 | 01/14/2016 |
| Nitrobenzene | 100 | | **519** | 500.0 | 0 | 103.8 | 471.0 | 9.72 | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 55.16 | 1.02 | 01/14/2016 |
| o-Xylene | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 51.67 | 1.78 | 01/14/2016 |
| Pentachloroethane | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 51.05 | 0.74 | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 54.00 | 1.27 | 01/14/2016 |
| Propionitrile | 50.0 | | **562** | 500.0 | 0 | 112.4 | 516.6 | 8.40 | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 52.05 | 0.23 | 01/14/2016 |
| Styrene | 5.0 | | **53.4** | 50.00 | 0 | 106.7 | 52.50 | 1.61 | 01/14/2016 |
| tert-Amyl methyl ether | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 49.42 | 0.54 | 01/14/2016 |
| tert-Butyl alcohol | 50.0 | | **275** | 250.0 | 0 | 110.0 | 255.1 | 7.50 | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 53.77 | 0.35 | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 54.98 | 3.57 | 01/14/2016 |
| Tetrahydrofuran | 50.0 | J | **50** | 50.00 | 0 | 99.3 | 44.90 | 0.00 | 01/14/2016 |
| Toluene | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 51.66 | 0.74 | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 52.91 | 1.45 | 01/14/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **51.1** | 50.00 | 0 | 102.3 | 50.45 | 1.36 | 01/14/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 47.40 | 2.05 | 01/14/2016 |
| Trichloroethene | 5.0 | | **55.4** | 50.00 | 0 | 110.8 | 56.02 | 1.13 | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 53.72 | 0.50 | 01/14/2016 |
| Vinyl acetate | 50.0 | | **51.6** | 50.00 | 0 | 103.3 | 51.01 | 1.21 | 01/14/2016 |
| Vinyl chloride | 2.0 | | **46.3** | 50.00 | 0 | 92.6 | 46.04 | 0.61 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115619** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **159** | 150.0 | 0 | 106.2 | 158.0 | 0.83 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.5** | 50.00 | | 97.0 | | | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.8** | 50.00 | | 99.7 | | | 01/14/2016 |
| Surr: Toluene-d8 | | | **47.2** | 50.00 | | 94.5 | | | 01/14/2016 |

**Batch 115619** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2060** | 2000 | 0 | 102.8 | 70 | 130 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.7** | 50.00 | | 95.4 | 72.2 | 131 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.3** | 50.00 | | 98.6 | 82.1 | 116 | 01/14/2016 |
| Surr: Toluene-d8 | | | **49.4** | 50.00 | | 98.8 | 86 | 116 | 01/14/2016 |

**Batch 115619** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2160** | 2000 | 0 | 107.8 | 2055 | 4.74 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.9** | 50.00 | | 95.8 | | | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.8** | 50.00 | | 99.5 | | | 01/14/2016 |
| Surr: Toluene-d8 | | | **49.2** | 50.00 | | 98.4 | | | 01/14/2016 |

# Receiving Check List

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608
**Report Date:** 19-Jan-16

**Carrier:** Nick Harvey
**Received By:** MLA

**Completed by:** M. Kaminski
**On:** 13-Jan-16
Mary Anne Kaminski

**Reviewed by:** Elizabeth A. Hurley
**On:** 13-Jan-16
Elizabeth A. Hurley

**Pages to follow:** Chain of custody 3 Extra pages included 0

| | | | | |
|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ | Temp °C 2.02 |
| Type of thermal preservation? | None ☐ | Ice ☑ | Blue Ice ☐ | Dry Ice ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | | |
| Sample containers intact? | Yes ☑ | No ☐ | | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | | |
| All samples received within holding time? | Yes ☑ | No ☐ | | |
| Reported field parameters measured: | Field ☐ | Lab ☐ | NA ☑ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | | |

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

| | | | |
|---|---|---|---|
| Water – at least one vial per sample has zero headspace? | Yes ☑ | No ☐ | No VOA vials ☐ |
| Water - TOX containers have zero headspace? | Yes ☐ | No ☐ | No TOX containers ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | NA ☐ |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes ☐ | No ☐ | NA ☑ |

**Any No responses must be detailed below or on the COC.**

# CHAIN OF CUSTODY

pg. 1 of 3 Work order # 16010608

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☒ ICE ☐ BLUE ICE ☐ NO ICE 2.02 °C
**Preserved in:** ☐ LAB ☐ FIELD **FOR LAB USE ONLY**
**Lab Notes**
Zero headspace KF 1/13/16

**Client Comments:**
Meet MRBCA DTLs

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16010608-001 | SCI-47A(0-3) | 1-12-2016 8:45 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 002 | SCI-47B(15-20) | 8:45 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| 003 | SCI-47D(15-20) | 8:45 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| 004 | SCI-48A(0-3) | 9:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 005 | SCI-48B(15-20) | 9:25 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| 006 | SCI-49A(0-3) | 9:45 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 007 | SCI-49B(15-20) | 10:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 008 | SCI-50A(0-3) | 10:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 009 | SCI-50B(15-20) | 10:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 010 | SCI-51A(0-3) | 10:40 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

Courier

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 1-12-2016 16:20 | | 1/12/16 1620 |
| | 1/12/16 1650 | | 1/12/16 1650 |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

# CHAIN OF CUSTODY

pg. 2 of 3 Work order # 16010608

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☒ ICE ☐ BLUE ICE ☐ NO ICE 2.02 °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**

**Client Comments:**
Meet MRBCA DTLs

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16010608-011 | SCI-51B(15-20) | 1-12-2016 11:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 012 | SCI-52A(0-3) | 11:45 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 013 | SCI-52B(10-15 | 12:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 014 | SCI-53A(0-3) | 12:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 015 | SCI-53B(15-20) | 12:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 016 | SCI-54A(0-3) | 12:45 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 017 | SCI-54B(15-20) | 13:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 018 | SCI-55A(0-3) | 13:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 019 | SCI-55B(15-20 | 13:45 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 020 | SCI-57A(0-3) | 14:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 1-12-2016 16:20 | | 1/12/16 1620 |
| | 1/12/16 1650 | | 1/12/16 1650 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

# CHAIN OF CUSTODY

pg. 3 of 3 Work order # 16010608

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☒ ICE ☐ BLUE ICE ☐ NO ICE 2.02 °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**

**Client Comments:**
Meet MRBCA OTLs

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16010608-021 | SCI-57B (15-20) | 1-12-2016 14:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 022 | SCI-58A (0-3) | 14:35 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 023 | SCI-58B (10-15) | 15:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 024 | SCI-59A (0-3) | 15:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 025 | SCI-59B (15-20) | 15:35 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 026 | TB-7 | 8:00 | | | | | | | | 2 | | X | | | | | | | | X |
| 027 | TB-8 | 8:00 | | | | | | | | 2 | | X | | | | | | | | X |
| 028 | GB-5 | 16:00 | | | | | | | | 2 | | X | | | | | | | | X |
| 029 | SCI-54D (15-20) | 13:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 1-12-2016 16:20 | | 1/12/16 1620 |
| | 1/12/16 1650 | | 1/12/16 1650 |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

January 19, 2016

Ben Butterfield
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301
TEL: (618) 206-3028
FAX: (636) 949-8269

**RE:** NGA 2015-0461.21 **WorkOrder:** 16010697

Dear Ben Butterfield:

TEKLAB, INC received 29 samples on 1/13/2016 5:10:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Project Manager
(618)344-1004 ex 16
MAustin@teklabinc.com

# Report Contents

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697

**Report Date:** 19-Jan-16

**This reporting package includes the following:**


| | |
|---|---|
| Cover Letter | 1 |
| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 4 |
| Laboratory Results | 5 |
| Quality Control Results | 92 |
| Receiving Check List | 136 |
| Chain of Custody | Appended |

# Definitions



**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## Abbr Definition

| | |
|---|---|
| CCV | Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration. |
| DF | Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors. |
| DNI | Did not ignite |
| DUP | Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. |
| ICV | Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated. |
| IDPH | IL Dept. of Public Health |
| LCS | Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request). |
| LCSD | Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MBLK | Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses. |
| MDL | Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. |
| MS | Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MSD | Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MW | Molecular weight |
| ND | Not Detected at the Reporting Limit |
| NELAP | NELAP Accredited |
| PQL | Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request). |
| RL | The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL. |
| RPD | Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request). |
| SPK | The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. |
| Surr | Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. |
| TIC | Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET" |
| TNTC | Too numerous to count ( > 200 CFU ) |

## Qualifiers

| | | | |
|---|---|---|---|
| # - | Unknown hydrocarbon | B - | Analyte detected in associated Method Blank |
| E - | Value above quantitation range | H - | Holding times exceeded |
| I - | Associated internal standard was outside method criteria | J - | Analyte detected below quantitation limits |
| M - | Manual Integration used to determine area response | ND - | Not Detected at the Reporting Limit |
| R - | RPD outside accepted recovery limits | S - | Spike Recovery outside recovery limits |
| T - | TIC(Tentatively identified compound) | X - | Value exceeds Maximum Contaminant Level |

# Case Narrative

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697
**Report Date:** 19-Jan-16

**Cooler Receipt Temp:** 8.02 °C

## Locations and Accreditations

| | Collinsville | Springfield | Kansas City | Collinsville Air |
|---|---|---|---|---|
| Address | 5445 Horseshoe Lake Road | 3920 Pintail Dr | 8421 Nieman Road | 5445 Horseshoe Lake Road |
| | Collinsville, IL 62234-7425 | Springfield, IL 62711-9415 | Lenexa, KS 66214 | Collinsville, IL 62234-7425 |
| Phone | (618) 344-1004 | (217) 698-1004 | (913) 541-1998 | (618) 344-1004 |
| Fax | (618) 344-1005 | (217) 698-1005 | (913) 541-1998 | (618) 344-1005 |
| Email | jhriley@teklabinc.com | KKlostermann@teklabinc.com | dthompson@teklabinc.com | EHurley@teklabinc.com |

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|---|---|---|---|---|---|
| Illinois | IEPA | 100226 | NELAP | 1/31/2017 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 1/31/2016 | Collinsville |
| Louisiana | LDEQ | 166493 | NELAP | 6/30/2016 | Collinsville |
| Louisiana | LDEQ | 166578 | NELAP | 6/30/2016 | Collinsville |
| Texas | TCEQ | T104704515-12-1 | NELAP | 7/31/2016 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2016 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2017 | Collinsville |
| Kentucky | KDEP | 98006 | | 12/31/2016 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2016 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2017 | Collinsville |
| Oklahoma | ODEQ | 9978 | | 8/31/2016 | Collinsville |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-001 **Client Sample ID:** TB-9

**Matrix:** TRIP BLANK **Collection Date:** 01/13/2016 17:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Acetone | NELAP | 25.0 | J | **12** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-001
**Client Sample ID:** TB-9
**Matrix:** TRIP BLANK
**Collection Date:** 01/13/2016 17:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Chlorobenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Chloroethane | NELAP | 10.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Chloroform | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Chloromethane | NELAP | 10.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Chloroprene | NELAP | 20.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Cyclohexanone | | 50.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Dibromochloromethane | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Dibromomethane | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Dichlorodifluoromethane | NELAP | 10.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Diisopropyl ether | | 2.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Ethyl acetate | NELAP | 10.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Ethyl ether | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Ethyl methacrylate | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Ethylbenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Ethyl-tert-butyl ether | | 2.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Hexachlorobutadiene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Hexachloroethane | NELAP | 10.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Iodomethane | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Isopropylbenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| m,p-Xylenes | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Methacrylonitrile | NELAP | 10.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Methyl Methacrylate | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Methyl tert-butyl ether | NELAP | 2.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Methylacrylate | NELAP | 10.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Methylene chloride | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Naphthalene | NELAP | 10.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| n-Butyl acetate | | 25.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| n-Butylbenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| n-Heptane | | 20.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| n-Hexane | | 20.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Nitrobenzene | NELAP | 50.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| n-Propylbenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| o-Xylene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Pentachloroethane | NELAP | 20.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| p-Isopropyltoluene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Propionitrile | NELAP | 50.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| sec-Butylbenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Styrene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| tert-Amyl methyl ether | | 2.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| tert-Butyl alcohol | NELAP | 25.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| tert-Butylbenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Tetrachloroethene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Tetrahydrofuran | NELAP | 20.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-001
**Client Sample ID:** TB-9
**Matrix:** TRIP BLANK
**Collection Date:** 01/13/2016 17:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **98.0** | %REC | 1 | 01/14/2016 11:55 | 115642 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **100.5** | %REC | 1 | 01/14/2016 11:55 | 115642 |
| Surr: Toluene-d8 | | 84.3-114 | | **99.0** | %REC | 1 | 01/14/2016 11:55 | 115642 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-002
**Client Sample ID:** SCI- 61A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 8:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **15.3** | % | 1 | 01/15/2016 17:13 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **9.50** | mg/Kg-dry | 1 | 01/15/2016 14:55 | 115618 |
| Barium | NELAP | 0.23 | | **134** | mg/Kg-dry | 1 | 01/15/2016 14:55 | 115618 |
| Cadmium | NELAP | 0.18 | | **0.92** | mg/Kg-dry | 1 | 01/15/2016 14:55 | 115618 |
| Chromium | NELAP | 0.45 | | **17.5** | mg/Kg-dry | 1 | 01/15/2016 14:55 | 115618 |
| Lead | NELAP | 1.36 | | **156** | mg/Kg-dry | 1 | 01/15/2016 14:55 | 115618 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 01/15/2016 14:55 | 115618 |
| Silver | NELAP | 0.45 | | **< 0.45** | mg/Kg-dry | 1 | 01/15/2016 14:55 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.192** | mg/Kg-dry | 1 | 01/15/2016 9:56 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.395 | | **1.57** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Anthracene | NELAP | 0.395 | | **4.73** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Benzo(a)anthracene | NELAP | 0.395 | | **11.3** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Benzo(a)pyrene | NELAP | 0.395 | | **10.4** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.395 | | **12.8** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.395 | | **5.28** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Chrysene | NELAP | 0.395 | | **9.43** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.395 | | **0.855** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Fluoranthene | NELAP | 0.395 | | **31.0** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Fluorene | NELAP | 0.395 | | **1.53** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Pyrene | NELAP | 0.395 | | **25.2** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| TPH-DRO (C10 - C21) | | 139 | J | **110** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| TPH-ORO (C21 - C35) | | 139 | | **297** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **74.3** | %REC | 10 | 01/16/2016 1:08 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **71.5** | %REC | 10 | 01/16/2016 1:08 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **95.4** | %REC | 10 | 01/16/2016 1:08 | 115592 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,1,1-Trichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,1,2-Trichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,1-Dichloro-2-propanone | | 39.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,1-Dichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,1-Dichloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,1-Dichloropropene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,2,3-Trichlorobenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,2,3-Trichloropropane | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,2,3-Trimethylbenzene | | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,2,4-Trichlorobenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,2,4-Trimethylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,2-Dibromoethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,2-Dichlorobenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 16010697-002
**Matrix:** SOLID

**Work Order:** 16010697
**Report Date:** 19-Jan-16
**Client Sample ID:** SCI- 61A (0-3)
**Collection Date:** 01/13/2016 8:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,2-Dichloropropane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,3,5-Trimethylbenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,3-Dichlorobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,3-Dichloropropane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,4-Dichlorobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1-Chlorobutane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 2,2-Dichloropropane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 2-Butanone | NELAP | 39.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 2-Chlorotoluene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 2-Hexanone | NELAP | 39.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 2-Nitropropane | NELAP | 39.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 4-Chlorotoluene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 4-Methyl-2-pentanone | NELAP | 39.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Acetone | NELAP | 39.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Acetonitrile | NELAP | 79.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Acrolein | NELAP | 79.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Acrylonitrile | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Allyl chloride | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Bromobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Bromochloromethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Bromodichloromethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Bromoform | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Bromomethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Carbon disulfide | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Carbon tetrachloride | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Chlorobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Chloroethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Chloroform | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Chloromethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| cis-1,2-Dichloroethene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| cis-1,3-Dichloropropene | NELAP | 3.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Cyclohexanone | | 79.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Dibromochloromethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Dibromomethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Dichlorodifluoromethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Diisopropyl ether | | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Ethyl ether | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Ethyl methacrylate | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Ethylbenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Ethyl-tert-butyl ether | | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Hexachlorobutadiene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Hexachloroethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Iodomethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Isopropylbenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| m,p-Xylenes | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-002 **Client Sample ID:** SCI- 61A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 8:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 39.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Methyl Methacrylate | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Methyl tert-butyl ether | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Methylacrylate | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Methylene chloride | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Naphthalene | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| n-Butylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| n-Heptane | | 15.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| n-Hexane | | 15.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Nitrobenzene | NELAP | 79.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| n-Propylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| o-Xylene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Pentachloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| p-Isopropyltoluene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Propionitrile | NELAP | 39.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| sec-Butylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Styrene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| tert-Amyl methyl ether | | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| tert-Butyl alcohol | NELAP | 39.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| tert-Butylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Tetrachloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Tetrahydrofuran | NELAP | 39.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Toluene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| TPH - GRO (C6 - C10) | | 397 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| trans-1,2-Dichloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| trans-1,3-Dichloropropene | NELAP | 3.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Trichloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Trichlorofluoromethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Vinyl acetate | NELAP | 39.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Vinyl chloride | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Xylenes, Total | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **106.5** | %REC | 1 | 01/14/2016 17:44 | 115623 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **107.1** | %REC | 1 | 01/14/2016 17:44 | 115623 |
| Surr: Toluene-d8 | | 86-116 | | **100.2** | %REC | 1 | 01/14/2016 17:44 | 115623 |

*RPD for LCS/LCSD was outside of QC limit for iodomethane.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-003
**Client Sample ID:** SCI-61B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.6** | % | 1 | 01/15/2016 17:14 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **7.97** | mg/Kg-dry | 1 | 01/15/2016 14:59 | 115618 |
| Barium | NELAP | 0.23 | | **54.5** | mg/Kg-dry | 1 | 01/15/2016 14:59 | 115618 |
| Cadmium | NELAP | 0.18 | J | **0.12** | mg/Kg-dry | 1 | 01/15/2016 14:59 | 115618 |
| Chromium | NELAP | 0.45 | | **42.9** | mg/Kg-dry | 1 | 01/15/2016 14:59 | 115618 |
| Lead | NELAP | 1.36 | | **11.2** | mg/Kg-dry | 1 | 01/15/2016 14:59 | 115618 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 01/15/2016 14:59 | 115618 |
| Silver | NELAP | 0.45 | | **< 0.45** | mg/Kg-dry | 1 | 01/15/2016 14:59 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.032** | mg/Kg-dry | 1 | 01/15/2016 9:59 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Anthracene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Benzo(a)anthracene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Benzo(a)pyrene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Chrysene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Fluoranthene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Fluorene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Pyrene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| TPH-DRO (C10 - C21) | | 14.6 | J | **7.6** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| TPH-ORO (C21 - C35) | | 14.6 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **76.3** | %REC | 1 | 01/15/2016 16:30 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.9** | %REC | 1 | 01/15/2016 16:30 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **97.9** | %REC | 1 | 01/15/2016 16:30 | 115592 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,1-Dichloro-2-propanone | | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,2,3-Trichloropropane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,2-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-003 **Client Sample ID:** SCI-61B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 2-Butanone | NELAP | 45.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 2-Hexanone | NELAP | 45.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 2-Nitropropane | NELAP | 45.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 4-Methyl-2-pentanone | NELAP | 45.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Acetone | NELAP | 45.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Acetonitrile | NELAP | 90.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Acrolein | NELAP | 90.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Acrylonitrile | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Bromomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Chloroethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Chloromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Cyclohexanone | | 90.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Dichlorodifluoromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Iodomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Methacrylonitrile | NELAP | 45.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-003
**Client Sample ID:** SCI-61B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Methylacrylate | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Methylene chloride | NELAP | 4.5 | J | **0.9** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Naphthalene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| n-Heptane | | 18.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| n-Hexane | | 18.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Nitrobenzene | NELAP | 90.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Propionitrile | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| tert-Butyl alcohol | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Tetrahydrofuran | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| TPH - GRO (C6 - C10) | | 454 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Vinyl acetate | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.3** | %REC | 1 | 01/14/2016 18:11 | 115623 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.6** | %REC | 1 | 01/14/2016 18:11 | 115623 |
| Surr: Toluene-d8 | | 86-116 | | **96.2** | %REC | 1 | 01/14/2016 18:11 | 115623 |

*RPD for LCS/LCSD was outside of QC limit for iodomethane.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-004 **Client Sample ID:** SCI-63A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 9:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.4** | % | 1 | 01/15/2016 17:14 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **17.9** | mg/Kg-dry | 1 | 01/15/2016 15:03 | 115618 |
| Barium | NELAP | 0.25 | | **333** | mg/Kg-dry | 1 | 01/15/2016 15:03 | 115618 |
| Cadmium | NELAP | 0.20 | | **1.49** | mg/Kg-dry | 1 | 01/15/2016 15:03 | 115618 |
| Chromium | NELAP | 0.50 | | **27.6** | mg/Kg-dry | 1 | 01/15/2016 15:03 | 115618 |
| Lead | NELAP | 1.50 | | **679** | mg/Kg-dry | 1 | 01/15/2016 15:03 | 115618 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/15/2016 15:03 | 115618 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/15/2016 15:03 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.064 | | **0.748** | mg/Kg-dry | 5 | 01/15/2016 12:01 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.216 | | **0.246** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Anthracene | NELAP | 0.216 | | **0.528** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Benzo(a)anthracene | NELAP | 0.216 | | **1.69** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Benzo(a)pyrene | NELAP | 0.216 | | **1.55** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.216 | | **1.95** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.216 | | **0.623** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Chrysene | NELAP | 0.216 | | **1.46** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.216 | J | **0.17** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Fluoranthene | NELAP | 0.216 | | **3.59** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Fluorene | NELAP | 0.216 | J | **0.16** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Pyrene | NELAP | 0.216 | | **3.28** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| TPH-DRO (C10 - C21) | | 76.3 | J | **39** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| TPH-ORO (C21 - C35) | | 76.3 | J | **64** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **60.3** | %REC | 5 | 01/18/2016 18:22 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **60.9** | %REC | 5 | 01/18/2016 18:22 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **77.7** | %REC | 5 | 01/18/2016 18:22 | 115592 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,1,1-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,1,2-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,1-Dichloro-2-propanone | | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,1-Dichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,1-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,1-Dichloropropene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,2,3-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,2,3-Trichloropropane | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,2,3-Trimethylbenzene | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,2,4-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,2,4-Trimethylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,2-Dibromoethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,2-Dichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-004
**Client Sample ID:** SCI-63A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 9:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,3,5-Trimethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,3-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,3-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,4-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1-Chlorobutane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 2,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 2-Butanone | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 2-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 2-Hexanone | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 2-Nitropropane | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 4-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 4-Methyl-2-pentanone | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Acetone | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Acetonitrile | NELAP | 98.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Acrolein | NELAP | 98.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Acrylonitrile | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Allyl chloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Bromobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Bromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Bromodichloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Bromoform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Bromomethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Carbon disulfide | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Carbon tetrachloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Chlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Chloroethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Chloroform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Chloromethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| cis-1,2-Dichloroethene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| cis-1,3-Dichloropropene | NELAP | 3.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Cyclohexanone | | 98.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Dibromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Dibromomethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Dichlorodifluoromethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Diisopropyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Ethyl ether | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Ethyl methacrylate | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Ethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Ethyl-tert-butyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Hexachlorobutadiene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Hexachloroethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Iodomethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Isopropylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| m,p-Xylenes | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-004
**Client Sample ID:** SCI-63A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 9:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Methyl Methacrylate | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Methylacrylate | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Methylene chloride | NELAP | 4.9 | J | **1.5** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Naphthalene | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| n-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| n-Heptane | | 19.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| n-Hexane | | 19.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Nitrobenzene | NELAP | 98.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| n-Propylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| o-Xylene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Pentachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| p-Isopropyltoluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Propionitrile | NELAP | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| sec-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Styrene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| tert-Amyl methyl ether | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| tert-Butyl alcohol | NELAP | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| tert-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Tetrachloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Tetrahydrofuran | NELAP | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Toluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| TPH - GRO (C6 - C10) | | 492 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| trans-1,2-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| trans-1,3-Dichloropropene | NELAP | 3.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Trichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Trichlorofluoromethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Vinyl acetate | NELAP | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Xylenes, Total | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.2** | %REC | 1 | 01/15/2016 13:53 | 115663 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **105.5** | %REC | 1 | 01/15/2016 13:53 | 115663 |
| Surr: Toluene-d8 | | 86-116 | | **103.5** | %REC | 1 | 01/15/2016 13:53 | 115663 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-005
**Client Sample ID:** SCI-63B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 9:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.5** | % | 1 | 01/15/2016 17:15 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **7.93** | mg/Kg-dry | 1 | 01/15/2016 15:06 | 115618 |
| Barium | NELAP | 0.25 | | **67.8** | mg/Kg-dry | 1 | 01/15/2016 15:06 | 115618 |
| Cadmium | NELAP | 0.20 | J | **0.07** | mg/Kg-dry | 1 | 01/15/2016 15:06 | 115618 |
| Chromium | NELAP | 0.49 | | **39.4** | mg/Kg-dry | 1 | 01/18/2016 18:21 | 115618 |
| Lead | NELAP | 1.47 | | **13.8** | mg/Kg-dry | 1 | 01/15/2016 15:06 | 115618 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 01/15/2016 15:06 | 115618 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 01/15/2016 15:06 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.026** | mg/Kg-dry | 1 | 01/15/2016 10:04 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Anthracene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Benzo(a)anthracene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Benzo(a)pyrene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Chrysene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Fluoranthene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Fluorene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Pyrene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| TPH-DRO (C10 - C21) | | 14.2 | J | **7.5** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| TPH-ORO (C21 - C35) | | 14.2 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.9** | %REC | 1 | 01/15/2016 17:00 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.2** | %REC | 1 | 01/15/2016 17:00 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **94.6** | %REC | 1 | 01/15/2016 17:00 | 115592 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,1,1-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,1,2-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,1-Dichloro-2-propanone | | 40.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,1-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,1-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,1-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,2,3-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,2,3-Trichloropropane | NELAP | 8.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,2,3-Trimethylbenzene | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,2,4-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,2,4-Trimethylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,2-Dibromoethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,2-Dichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,2-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-005 **Client Sample ID:** SCI-63B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 9:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,3,5-Trimethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,3-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,3-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,4-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1-Chlorobutane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 2,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 2-Butanone | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 2-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 2-Hexanone | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 2-Nitropropane | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 4-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 4-Methyl-2-pentanone | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Acetone | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Acetonitrile | NELAP | 81.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Acrolein | NELAP | 81.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Acrylonitrile | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Allyl chloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Bromobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Bromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Bromodichloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Bromoform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Bromomethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Carbon disulfide | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Carbon tetrachloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Chlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Chloroethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Chloroform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Chloromethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| cis-1,2-Dichloroethene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| cis-1,3-Dichloropropene | NELAP | 3.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Cyclohexanone | | 81.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Dibromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Dibromomethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Dichlorodifluoromethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Diisopropyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Ethyl ether | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Ethyl methacrylate | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Ethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Ethyl-tert-butyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Hexachlorobutadiene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Hexachloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Iodomethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Isopropylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| m,p-Xylenes | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Methacrylonitrile | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-005
**Client Sample ID:** SCI-63B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 9:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Methyl tert-butyl ether | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Methylacrylate | NELAP | 8.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Methylene chloride | NELAP | 4.1 | J | **0.9** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Naphthalene | NELAP | 8.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| n-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| n-Heptane | | 16.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| n-Hexane | | 16.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Nitrobenzene | NELAP | 81.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| n-Propylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| o-Xylene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Pentachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| p-Isopropyltoluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Propionitrile | NELAP | 40.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| sec-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Styrene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| tert-Amyl methyl ether | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| tert-Butyl alcohol | NELAP | 40.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| tert-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Tetrachloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Tetrahydrofuran | NELAP | 40.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Toluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| TPH - GRO (C6 - C10) | | 407 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| trans-1,2-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| trans-1,3-Dichloropropene | NELAP | 3.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Trichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Trichlorofluoromethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Vinyl acetate | NELAP | 40.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Vinyl chloride | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Xylenes, Total | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.4** | %REC | 1 | 01/14/2016 19:05 | 115623 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.5** | %REC | 1 | 01/14/2016 19:05 | 115623 |
| Surr: Toluene-d8 | | 86-116 | | **98.8** | %REC | 1 | 01/14/2016 19:05 | 115623 |

*RPD for LCS/LCSD was outside of QC limit for iodomethane.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-006 **Client Sample ID:** SCI-64A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.4** | % | 1 | 01/15/2016 17:15 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **8.46** | mg/Kg-dry | 1 | 01/15/2016 15:17 | 115618 |
| Barium | NELAP | 0.23 | | **185** | mg/Kg-dry | 1 | 01/15/2016 15:17 | 115618 |
| Cadmium | NELAP | 0.19 | | **0.92** | mg/Kg-dry | 1 | 01/15/2016 15:17 | 115618 |
| Chromium | NELAP | 0.46 | | **19.7** | mg/Kg-dry | 1 | 01/15/2016 15:17 | 115618 |
| Lead | NELAP | 1.39 | | **230** | mg/Kg-dry | 1 | 01/15/2016 15:17 | 115618 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 01/15/2016 15:17 | 115618 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/15/2016 15:17 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.138** | mg/Kg-dry | 1 | 01/15/2016 10:11 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.409 | | **0.529** | mg/Kg-dry | 10 | 01/16/2016 1:38 | 115592 |
| Anthracene | NELAP | 0.409 | | **1.30** | mg/Kg-dry | 10 | 01/16/2016 1:38 | 115592 |
| Benzo(a)anthracene | NELAP | 0.409 | | **4.52** | mg/Kg-dry | 10 | 01/16/2016 1:38 | 115592 |
| Benzo(a)pyrene | NELAP | 0.409 | | **3.65** | mg/Kg-dry | 10 | 01/18/2016 20:49 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.409 | | **5.49** | mg/Kg-dry | 10 | 01/18/2016 20:49 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.409 | | **2.04** | mg/Kg-dry | 10 | 01/18/2016 20:49 | 115592 |
| Chrysene | NELAP | 0.409 | | **4.42** | mg/Kg-dry | 10 | 01/16/2016 1:38 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.409 | J | **0.30** | mg/Kg-dry | 10 | 01/18/2016 20:49 | 115592 |
| Fluoranthene | NELAP | 0.409 | | **10.4** | mg/Kg-dry | 10 | 01/16/2016 1:38 | 115592 |
| Fluorene | NELAP | 0.409 | | **0.565** | mg/Kg-dry | 10 | 01/16/2016 1:38 | 115592 |
| Pyrene | NELAP | 0.409 | | **9.11** | mg/Kg-dry | 10 | 01/16/2016 1:38 | 115592 |
| TPH-DRO (C10 - C21) | | 144 | J | **85** | mg/Kg-dry | 10 | 01/16/2016 1:38 | 115592 |
| TPH-ORO (C21 - C35) | | 144 | | **191** | mg/Kg-dry | 10 | 01/16/2016 1:38 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **79.5** | %REC | 10 | 01/16/2016 1:38 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **74.8** | %REC | 10 | 01/16/2016 1:38 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **99.2** | %REC | 10 | 01/16/2016 1:38 | 115592 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,1,1-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,1,2-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,1-Dichloro-2-propanone | | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,1-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,1-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,1-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,2,3-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,2,3-Trichloropropane | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,2,3-Trimethylbenzene | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,2,4-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,2,4-Trimethylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,2-Dibromoethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,2-Dichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-006
**Client Sample ID:** SCI-64A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,3,5-Trimethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,3-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,3-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,4-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1-Chlorobutane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 2,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 2-Butanone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 2-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 2-Hexanone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 2-Nitropropane | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 4-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 4-Methyl-2-pentanone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Acetone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Acetonitrile | NELAP | 82.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Acrolein | NELAP | 82.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Acrylonitrile | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Allyl chloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Bromobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Bromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Bromodichloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Bromoform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Bromomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Carbon disulfide | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Carbon tetrachloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Chlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Chloroethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Chloroform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Chloromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| cis-1,2-Dichloroethene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| cis-1,3-Dichloropropene | NELAP | 3.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Cyclohexanone | | 82.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Dibromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Dibromomethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Dichlorodifluoromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Diisopropyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Ethyl ether | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Ethyl methacrylate | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Ethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Ethyl-tert-butyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Hexachlorobutadiene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Hexachloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Iodomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Isopropylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| m,p-Xylenes | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-006 **Client Sample ID:** SCI-64A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Methyl Methacrylate | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Methyl tert-butyl ether | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Methylacrylate | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Methylene chloride | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Naphthalene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| n-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| n-Heptane | | 16.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| n-Hexane | | 16.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Nitrobenzene | NELAP | 82.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| n-Propylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| o-Xylene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Pentachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| p-Isopropyltoluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Propionitrile | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| sec-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Styrene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| tert-Amyl methyl ether | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| tert-Butyl alcohol | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| tert-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Tetrachloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Tetrahydrofuran | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Toluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| TPH - GRO (C6 - C10) | | 413 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| trans-1,2-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| trans-1,3-Dichloropropene | NELAP | 3.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Trichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Trichlorofluoromethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Vinyl acetate | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Vinyl chloride | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Xylenes, Total | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **107.0** | %REC | 1 | 01/14/2016 19:32 | 115623 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **103.7** | %REC | 1 | 01/14/2016 19:32 | 115623 |
| Surr: Toluene-d8 | | 86-116 | | **97.5** | %REC | 1 | 01/14/2016 19:32 | 115623 |

*RPD for LCS/LCSD was outside of QC limit for iodomethane.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-007 **Client Sample ID:** SCI-64B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 9:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.6** | % | 1 | 01/15/2016 17:16 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **6.38** | mg/Kg-dry | 1 | 01/15/2016 15:28 | 115618 |
| Barium | NELAP | 0.24 | | **67.6** | mg/Kg-dry | 1 | 01/15/2016 15:28 | 115618 |
| Cadmium | NELAP | 0.19 | J | **0.08** | mg/Kg-dry | 1 | 01/15/2016 15:28 | 115618 |
| Chromium | NELAP | 0.47 | | **23.5** | mg/Kg-dry | 1 | 01/15/2016 15:28 | 115618 |
| Lead | NELAP | 1.42 | | **10.6** | mg/Kg-dry | 1 | 01/15/2016 15:28 | 115618 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/15/2016 15:28 | 115618 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/15/2016 15:28 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.026** | mg/Kg-dry | 1 | 01/15/2016 10:13 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.412 | J | **0.41** | mg/Kg-dry | 10 | 01/16/2016 2:08 | 115592 |
| Anthracene | NELAP | 0.412 | | **0.942** | mg/Kg-dry | 10 | 01/16/2016 2:08 | 115592 |
| Benzo(a)anthracene | NELAP | 0.412 | | **ND** | mg/Kg-dry | 10 | 01/16/2016 2:08 | 115592 |
| Benzo(a)pyrene | NELAP | 0.412 | | **ND** | mg/Kg-dry | 10 | 01/18/2016 20:19 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.412 | | **ND** | mg/Kg-dry | 10 | 01/18/2016 20:19 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.412 | | **ND** | mg/Kg-dry | 10 | 01/18/2016 20:19 | 115592 |
| Chrysene | NELAP | 0.412 | | **ND** | mg/Kg-dry | 10 | 01/16/2016 2:08 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.412 | | **ND** | mg/Kg-dry | 10 | 01/18/2016 20:19 | 115592 |
| Fluoranthene | NELAP | 0.412 | | **ND** | mg/Kg-dry | 10 | 01/16/2016 2:08 | 115592 |
| Fluorene | NELAP | 0.412 | | **0.776** | mg/Kg-dry | 10 | 01/16/2016 2:08 | 115592 |
| Pyrene | NELAP | 0.412 | J | **0.30** | mg/Kg-dry | 10 | 01/16/2016 2:08 | 115592 |
| TPH-DRO (C10 - C21) | | 145 | | **508** | mg/Kg-dry | 10 | 01/16/2016 2:08 | 115592 |
| TPH-ORO (C21 - C35) | | 145 | J | **99** | mg/Kg-dry | 10 | 01/16/2016 2:08 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **70.4** | %REC | 10 | 01/16/2016 2:08 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **67.2** | %REC | 10 | 01/16/2016 2:08 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **92.2** | %REC | 10 | 01/16/2016 2:08 | 115592 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,1,1-Trichloroethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,1,2,2-Tetrachloroethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,1,2-Trichloroethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,1-Dichloro-2-propanone | | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,1-Dichloroethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,1-Dichloroethene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,1-Dichloropropene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,2,3-Trichlorobenzene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,2,3-Trichloropropane | NELAP | 486 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,2,3-Trimethylbenzene | | 243 | | **1240** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,2,4-Trichlorobenzene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,2,4-Trimethylbenzene | NELAP | 243 | | **3250** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,2-Dibromo-3-chloropropane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,2-Dibromoethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,2-Dichlorobenzene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-007 **Client Sample ID:** SCI-64B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 9:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,2-Dichloropropane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,3,5-Trimethylbenzene | NELAP | 243 | | **404** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,3-Dichlorobenzene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,3-Dichloropropane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,4-Dichlorobenzene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1-Chlorobutane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 2,2-Dichloropropane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 2-Butanone | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 2-Chlorotoluene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 2-Hexanone | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 2-Nitropropane | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 4-Chlorotoluene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 4-Methyl-2-pentanone | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Acetone | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Acetonitrile | NELAP | 4860 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Acrolein | NELAP | 4860 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Acrylonitrile | NELAP | 486 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Allyl chloride | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Benzene | NELAP | 48.6 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Bromobenzene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Bromochloromethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Bromodichloromethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Bromoform | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Bromomethane | NELAP | 486 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Carbon disulfide | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Carbon tetrachloride | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Chlorobenzene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Chloroethane | NELAP | 486 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Chloroform | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Chloromethane | NELAP | 486 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| cis-1,2-Dichloroethene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| cis-1,3-Dichloropropene | NELAP | 195 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Cyclohexanone | | 4860 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Dibromochloromethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Dibromomethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Dichlorodifluoromethane | NELAP | 486 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Diisopropyl ether | | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Ethyl ether | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Ethyl methacrylate | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Ethylbenzene | NELAP | 243 | J | **150** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Ethyl-tert-butyl ether | | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Hexachlorobutadiene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Hexachloroethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Iodomethane | NELAP | 486 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Isopropylbenzene | NELAP | 243 | J | **81** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| m,p-Xylenes | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-007 **Client Sample ID:** SCI-64B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 9:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Methyl Methacrylate | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Methyl tert-butyl ether | NELAP | 97.3 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Methylacrylate | NELAP | 486 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Methylene chloride | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Naphthalene | NELAP | 486 | | **1470** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| n-Butylbenzene | NELAP | 243 | | **605** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| n-Heptane | | 973 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| n-Hexane | | 973 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Nitrobenzene | NELAP | 4860 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| n-Propylbenzene | NELAP | 243 | | **327** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| o-Xylene | NELAP | 243 | J | **67** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Pentachloroethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| p-Isopropyltoluene | NELAP | 243 | J | **160** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Propionitrile | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| sec-Butylbenzene | NELAP | 243 | J | **110** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Styrene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| tert-Amyl methyl ether | | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| tert-Butyl alcohol | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| tert-Butylbenzene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Tetrachloroethene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Tetrahydrofuran | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Toluene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| TPH - GRO (C6 - C10) | | 24300 | J | **17000** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| trans-1,2-Dichloroethene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| trans-1,3-Dichloropropene | NELAP | 195 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| trans-1,4-Dichloro-2-butene | NELAP | 486 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Trichloroethene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Trichlorofluoromethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Vinyl acetate | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Vinyl chloride | NELAP | 97.3 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Xylenes, Total | NELAP | 243 | J | **67** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **97.8** | %REC | 25 | 01/15/2016 20:23 | 115663 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.3** | %REC | 25 | 01/15/2016 20:23 | 115663 |
| Surr: Toluene-d8 | | 86-116 | | **92.8** | %REC | 25 | 01/15/2016 20:23 | 115663 |

*Elevated reporting limit due to high levels of target and/or non-target analytes.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-008 **Client Sample ID:** SCI-65A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 10:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.3** | % | 1 | 01/15/2016 17:16 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **8.32** | mg/Kg-dry | 1 | 01/15/2016 15:32 | 115618 |
| Barium | NELAP | 0.24 | | **159** | mg/Kg-dry | 1 | 01/15/2016 15:32 | 115618 |
| Cadmium | NELAP | 0.19 | | **0.64** | mg/Kg-dry | 1 | 01/15/2016 15:32 | 115618 |
| Chromium | NELAP | 0.48 | | **19.6** | mg/Kg-dry | 1 | 01/15/2016 15:32 | 115618 |
| Lead | NELAP | 1.44 | | **88.5** | mg/Kg-dry | 1 | 01/15/2016 15:32 | 115618 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/15/2016 15:32 | 115618 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/15/2016 15:32 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.122** | mg/Kg-dry | 1 | 01/15/2016 10:21 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.205 | | **ND** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Anthracene | NELAP | 0.205 | | **ND** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Benzo(a)anthracene | NELAP | 0.205 | | **0.662** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Benzo(a)pyrene | NELAP | 0.205 | | **0.701** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.205 | | **0.919** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.205 | | **0.382** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Chrysene | NELAP | 0.205 | | **0.708** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.205 | | **ND** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Fluoranthene | NELAP | 0.205 | | **1.20** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Fluorene | NELAP | 0.205 | | **ND** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Pyrene | NELAP | 0.205 | | **1.10** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| TPH-DRO (C10 - C21) | | 72.4 | | **ND** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| TPH-ORO (C21 - C35) | | 72.4 | J | **37** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **53.1** | %REC | 5 | 01/18/2016 18:51 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **57.0** | %REC | 5 | 01/18/2016 18:51 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **78.1** | %REC | 5 | 01/18/2016 18:51 | 115592 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,1,1-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,1,2-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,1-Dichloro-2-propanone | | 42.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,1-Dichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,1-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,1-Dichloropropene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,2,3-Trichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,2,3-Trichloropropane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,2,3-Trimethylbenzene | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,2,4-Trichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,2,4-Trimethylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,2-Dibromoethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,2-Dichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-008
**Client Sample ID:** SCI-65A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 10:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,2-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,3,5-Trimethylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,3-Dichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,3-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,4-Dichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1-Chlorobutane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 2,2-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 2-Butanone | NELAP | 42.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 2-Chlorotoluene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 2-Hexanone | NELAP | 42.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 2-Nitropropane | NELAP | 42.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 4-Chlorotoluene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 4-Methyl-2-pentanone | NELAP | 42.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Acetone | NELAP | 42.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Acetonitrile | NELAP | 85.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Acrolein | NELAP | 85.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Acrylonitrile | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Allyl chloride | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Bromobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Bromochloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Bromodichloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Bromoform | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Bromomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Carbon disulfide | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Carbon tetrachloride | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Chlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Chloroethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Chloroform | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Chloromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| cis-1,2-Dichloroethene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Cyclohexanone | | 85.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Dibromochloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Dibromomethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Dichlorodifluoromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Diisopropyl ether | | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Ethyl ether | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Ethyl methacrylate | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Ethylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Ethyl-tert-butyl ether | | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Hexachlorobutadiene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Hexachloroethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Iodomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Isopropylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| m,p-Xylenes | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-008 **Client Sample ID:** SCI-65A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 10:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 42.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Methyl Methacrylate | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Methylacrylate | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Methylene chloride | NELAP | 4.3 | J | **1.4** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Naphthalene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| n-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| n-Heptane | | 17.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| n-Hexane | | 17.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Nitrobenzene | NELAP | 85.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| n-Propylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| o-Xylene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Pentachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| p-Isopropyltoluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Propionitrile | NELAP | 42.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| sec-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Styrene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| tert-Amyl methyl ether | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| tert-Butyl alcohol | NELAP | 42.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| tert-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Tetrachloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Tetrahydrofuran | NELAP | 42.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Toluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| TPH - GRO (C6 - C10) | | 427 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| trans-1,2-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Trichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Trichlorofluoromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Vinyl acetate | NELAP | 42.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Xylenes, Total | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **98.5** | %REC | 1 | 01/14/2016 19:59 | 115623 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **109.9** | %REC | 1 | 01/14/2016 19:59 | 115623 |
| Surr: Toluene-d8 | | 86-116 | | **102.8** | %REC | 1 | 01/14/2016 19:59 | 115623 |

*RPD for LCS/LCSD was outside of QC limit for iodomethane.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-009
**Client Sample ID:** SCI-65B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 10:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **33.5** | % | 1 | 01/15/2016 17:17 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **27.9** | mg/Kg-dry | 1 | 01/15/2016 15:36 | 115618 |
| Barium | NELAP | 0.25 | | **136** | mg/Kg-dry | 1 | 01/15/2016 15:36 | 115618 |
| Cadmium | NELAP | 0.20 | | **0.48** | mg/Kg-dry | 1 | 01/15/2016 15:36 | 115618 |
| Chromium | NELAP | 0.50 | | **87.3** | mg/Kg-dry | 1 | 01/15/2016 15:36 | 115618 |
| Lead | NELAP | 1.50 | | **24.6** | mg/Kg-dry | 1 | 01/15/2016 15:36 | 115618 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/15/2016 15:36 | 115618 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/15/2016 15:36 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.014 | | **0.113** | mg/Kg-dry | 1 | 01/15/2016 10:23 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Anthracene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Benzo(a)anthracene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Benzo(a)pyrene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Chrysene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Fluoranthene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Fluorene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Pyrene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| TPH-DRO (C10 - C21) | | 18.0 | J | **9.1** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| TPH-ORO (C21 - C35) | | 18.0 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **57.0** | %REC | 1 | 01/15/2016 17:29 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **63.4** | %REC | 1 | 01/15/2016 17:29 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **90.5** | %REC | 1 | 01/15/2016 17:29 | 115592 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,1,1-Trichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,1,2-Trichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,1-Dichloro-2-propanone | | 52.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,1-Dichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,1-Dichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,1-Dichloropropene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,2,3-Trichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,2,3-Trichloropropane | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,2,3-Trimethylbenzene | | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,2,4-Trichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,2,4-Trimethylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,2-Dibromoethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,2-Dichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,2-Dichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-009 **Client Sample ID:** SCI-65B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 10:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,3,5-Trimethylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,3-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,3-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,4-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1-Chlorobutane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 2,2-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 2-Butanone | NELAP | 52.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 2-Chlorotoluene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 2-Hexanone | NELAP | 52.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 2-Nitropropane | NELAP | 52.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 4-Chlorotoluene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 4-Methyl-2-pentanone | NELAP | 52.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Acetone | NELAP | 52.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Acetonitrile | NELAP | 105 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Acrolein | NELAP | 105 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Acrylonitrile | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Allyl chloride | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Bromobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Bromochloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Bromodichloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Bromoform | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Bromomethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Carbon disulfide | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Carbon tetrachloride | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Chlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Chloroethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Chloroform | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Chloromethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| cis-1,2-Dichloroethene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| cis-1,3-Dichloropropene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Cyclohexanone | | 105 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Dibromochloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Dibromomethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Dichlorodifluoromethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Diisopropyl ether | | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Ethyl ether | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Ethyl methacrylate | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Ethylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Ethyl-tert-butyl ether | | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Hexachlorobutadiene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Hexachloroethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Iodomethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Isopropylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| m,p-Xylenes | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Methacrylonitrile | NELAP | 52.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-009 **Client Sample ID:** SCI-65B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 10:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Methyl tert-butyl ether | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Methylacrylate | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Methylene chloride | NELAP | 5.2 | J | **1.1** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Naphthalene | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| n-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| n-Heptane | | 21.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| n-Hexane | | 21.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Nitrobenzene | NELAP | 105 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| n-Propylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| o-Xylene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Pentachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| p-Isopropyltoluene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Propionitrile | NELAP | 52.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| sec-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Styrene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| tert-Amyl methyl ether | | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| tert-Butyl alcohol | NELAP | 52.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| tert-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Tetrachloroethene | NELAP | 5.2 | J | **1.4** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Tetrahydrofuran | NELAP | 52.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Toluene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| TPH - GRO (C6 - C10) | | 524 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| trans-1,2-Dichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| trans-1,3-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Trichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Trichlorofluoromethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Vinyl acetate | NELAP | 52.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Vinyl chloride | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Xylenes, Total | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.1** | %REC | 1 | 01/14/2016 20:26 | 115623 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.9** | %REC | 1 | 01/14/2016 20:26 | 115623 |
| Surr: Toluene-d8 | | 86-116 | | **98.1** | %REC | 1 | 01/14/2016 20:26 | 115623 |

*RPD for LCS/LCSD was outside of QC limit for iodomethane.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-010 **Client Sample ID:** SCI-66A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.5** | % | 1 | 01/15/2016 17:17 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **8.15** | mg/Kg-dry | 1 | 01/15/2016 15:39 | 115618 |
| Barium | NELAP | 0.25 | | **169** | mg/Kg-dry | 1 | 01/15/2016 15:39 | 115618 |
| Cadmium | NELAP | 0.20 | | **0.38** | mg/Kg-dry | 1 | 01/15/2016 15:39 | 115618 |
| Chromium | NELAP | 0.49 | | **17.4** | mg/Kg-dry | 1 | 01/15/2016 15:39 | 115618 |
| Lead | NELAP | 1.47 | | **238** | mg/Kg-dry | 1 | 01/15/2016 15:39 | 115618 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 01/15/2016 15:39 | 115618 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 01/15/2016 15:39 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.298** | mg/Kg-dry | 1 | 01/15/2016 10:25 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.202 | | **0.681** | mg/Kg-dry | 5 | 01/16/2016 2:37 | 115592 |
| Anthracene | NELAP | 0.202 | | **1.58** | mg/Kg-dry | 5 | 01/16/2016 2:37 | 115592 |
| Benzo(a)anthracene | NELAP | 0.202 | | **4.17** | mg/Kg-dry | 5 | 01/16/2016 2:37 | 115592 |
| Benzo(a)pyrene | NELAP | 0.202 | | **2.91** | mg/Kg-dry | 5 | 01/18/2016 19:21 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.202 | | **4.12** | mg/Kg-dry | 5 | 01/18/2016 19:21 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.202 | | **1.16** | mg/Kg-dry | 5 | 01/18/2016 19:21 | 115592 |
| Chrysene | NELAP | 0.202 | | **3.42** | mg/Kg-dry | 5 | 01/16/2016 2:37 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.202 | | **0.337** | mg/Kg-dry | 5 | 01/18/2016 19:21 | 115592 |
| Fluoranthene | NELAP | 0.202 | | **9.62** | mg/Kg-dry | 5 | 01/16/2016 2:37 | 115592 |
| Fluorene | NELAP | 0.202 | | **0.489** | mg/Kg-dry | 5 | 01/16/2016 2:37 | 115592 |
| Pyrene | NELAP | 0.202 | | **8.16** | mg/Kg-dry | 5 | 01/16/2016 2:37 | 115592 |
| TPH-DRO (C10 - C21) | | 71.2 | J | **50** | mg/Kg-dry | 5 | 01/16/2016 2:37 | 115592 |
| TPH-ORO (C21 - C35) | | 71.2 | | **90.4** | mg/Kg-dry | 5 | 01/16/2016 2:37 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **60.5** | %REC | 5 | 01/16/2016 2:37 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **62.5** | %REC | 5 | 01/16/2016 2:37 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **89.2** | %REC | 5 | 01/16/2016 2:37 | 115592 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,1-Dichloro-2-propanone | | 51.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,1-Dichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,1-Dichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,1-Dichloropropene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 10.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,2,3-Trimethylbenzene | | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,2-Dibromoethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-010
**Client Sample ID:** SCI-66A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,2-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,3-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1-Chlorobutane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 2,2-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 2-Butanone | NELAP | 51.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 2-Chlorotoluene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 2-Hexanone | NELAP | 51.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 2-Nitropropane | NELAP | 51.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 4-Chlorotoluene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 51.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Acetone | NELAP | 51.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Acetonitrile | NELAP | 103 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Acrolein | NELAP | 103 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Acrylonitrile | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Allyl chloride | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Bromobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Bromochloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Bromodichloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Bromoform | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Bromomethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Carbon disulfide | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Carbon tetrachloride | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Chlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Chloroethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Chloroform | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Chloromethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Cyclohexanone | | 103 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Dibromochloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Dibromomethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Dichlorodifluoromethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Diisopropyl ether | | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Ethyl ether | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Ethyl methacrylate | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Ethylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Ethyl-tert-butyl ether | | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Hexachlorobutadiene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Hexachloroethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Iodomethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Isopropylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| m,p-Xylenes | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-010 **Client Sample ID:** SCI-66A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 51.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Methyl Methacrylate | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Methyl tert-butyl ether | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Methylacrylate | NELAP | 10.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Methylene chloride | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Naphthalene | NELAP | 10.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| n-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| n-Heptane | | 20.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| n-Hexane | | 20.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Nitrobenzene | NELAP | 103 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| n-Propylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| o-Xylene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Pentachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| p-Isopropyltoluene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Propionitrile | NELAP | 51.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| sec-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Styrene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| tert-Amyl methyl ether | | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| tert-Butyl alcohol | NELAP | 51.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| tert-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Tetrachloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Tetrahydrofuran | NELAP | 51.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Toluene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| TPH - GRO (C6 - C10) | | 516 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Trichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Trichlorofluoromethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Vinyl acetate | NELAP | 51.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Vinyl chloride | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Xylenes, Total | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.2** | %REC | 1 | 01/15/2016 1:13 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **106.5** | %REC | 1 | 01/15/2016 1:13 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **99.7** | %REC | 1 | 01/15/2016 1:13 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-011
**Client Sample ID:** SCI-66B (10-15)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 10:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.0** | % | 1 | 01/15/2016 17:18 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **6.58** | mg/Kg-dry | 1 | 01/15/2016 15:43 | 115618 |
| Barium | NELAP | 0.25 | | **133** | mg/Kg-dry | 1 | 01/15/2016 15:43 | 115618 |
| Cadmium | NELAP | 0.20 | | **0.29** | mg/Kg-dry | 1 | 01/15/2016 15:43 | 115618 |
| Chromium | NELAP | 0.49 | | **21.4** | mg/Kg-dry | 1 | 01/15/2016 15:43 | 115618 |
| Lead | NELAP | 1.47 | | **44.4** | mg/Kg-dry | 1 | 01/15/2016 15:43 | 115618 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 01/15/2016 15:43 | 115618 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 01/15/2016 15:43 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.051** | mg/Kg-dry | 1 | 01/15/2016 10:28 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0429 | | **0.369** | mg/Kg-dry | 1 | 01/16/2016 3:07 | 115592 |
| Anthracene | NELAP | 0.0429 | | **0.995** | mg/Kg-dry | 1 | 01/16/2016 3:07 | 115592 |
| Benzo(a)anthracene | NELAP | 0.0429 | | **2.24** | mg/Kg-dry | 1 | 01/16/2016 3:07 | 115592 |
| Benzo(a)pyrene | NELAP | 0.0429 | | **1.64** | mg/Kg-dry | 1 | 01/18/2016 17:52 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.0429 | | **2.07** | mg/Kg-dry | 1 | 01/18/2016 17:52 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.0429 | | **0.717** | mg/Kg-dry | 1 | 01/18/2016 17:52 | 115592 |
| Chrysene | NELAP | 0.0429 | | **1.75** | mg/Kg-dry | 1 | 01/16/2016 3:07 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.0429 | | **0.0696** | mg/Kg-dry | 1 | 01/18/2016 17:52 | 115592 |
| Fluoranthene | NELAP | 0.0429 | | **4.71** | mg/Kg-dry | 1 | 01/16/2016 3:07 | 115592 |
| Fluorene | NELAP | 0.0429 | | **0.429** | mg/Kg-dry | 1 | 01/16/2016 3:07 | 115592 |
| Pyrene | NELAP | 0.0429 | | **4.08** | mg/Kg-dry | 1 | 01/16/2016 3:07 | 115592 |
| TPH-DRO (C10 - C21) | | 15.1 | | **22.7** | mg/Kg-dry | 1 | 01/16/2016 3:07 | 115592 |
| TPH-ORO (C21 - C35) | | 15.1 | | **44.3** | mg/Kg-dry | 1 | 01/16/2016 3:07 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **56.0** | %REC | 1 | 01/16/2016 3:07 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **62.3** | %REC | 1 | 01/16/2016 3:07 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **91.3** | %REC | 1 | 01/16/2016 3:07 | 115592 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,1-Dichloro-2-propanone | | 44.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-011 **Client Sample ID:** SCI-66B (10-15)

**Matrix:** SOLID **Collection Date:** 01/13/2016 10:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 2-Butanone | NELAP | 44.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 2-Hexanone | NELAP | 44.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 2-Nitropropane | NELAP | 44.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 44.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Acetone | NELAP | 44.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Acetonitrile | NELAP | 89.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Acrolein | NELAP | 89.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Acrylonitrile | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Bromomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Chloroethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Chloromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Cyclohexanone | | 89.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Dichlorodifluoromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Iodomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Methacrylonitrile | NELAP | 44.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-011 **Client Sample ID:** SCI-66B (10-15)

**Matrix:** SOLID **Collection Date:** 01/13/2016 10:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Methylacrylate | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Methylene chloride | NELAP | 4.5 | J | **0.9** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Naphthalene | NELAP | 8.9 | J | **2.2** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| n-Heptane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| n-Hexane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Nitrobenzene | NELAP | 89.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Propionitrile | NELAP | 44.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| tert-Butyl alcohol | NELAP | 44.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Tetrahydrofuran | NELAP | 44.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| TPH - GRO (C6 - C10) | | 446 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Vinyl acetate | NELAP | 44.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **102.3** | %REC | 1 | 01/15/2016 1:39 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.5** | %REC | 1 | 01/15/2016 1:39 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **97.4** | %REC | 1 | 01/15/2016 1:39 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-012 **Client Sample ID:** SCI-67A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 11:05

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.4** | % | 1 | 01/15/2016 17:18 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **9.23** | mg/Kg-dry | 1 | 01/15/2016 15:47 | 115618 |
| Barium | NELAP | 0.24 | | **312** | mg/Kg-dry | 1 | 01/15/2016 15:47 | 115618 |
| Cadmium | NELAP | 0.19 | | **0.73** | mg/Kg-dry | 1 | 01/15/2016 15:47 | 115618 |
| Chromium | NELAP | 0.47 | | **17.8** | mg/Kg-dry | 1 | 01/15/2016 15:47 | 115618 |
| Lead | NELAP | 1.42 | | **841** | mg/Kg-dry | 1 | 01/15/2016 15:47 | 115618 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/15/2016 15:47 | 115618 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/15/2016 15:47 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.059 | | **0.677** | mg/Kg-dry | 5 | 01/15/2016 12:03 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.202 | J | **0.16** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Anthracene | NELAP | 0.202 | | **0.424** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Benzo(a)anthracene | NELAP | 0.202 | | **1.52** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Benzo(a)pyrene | NELAP | 0.202 | | **1.36** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.202 | | **1.72** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.202 | | **0.690** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Chrysene | NELAP | 0.202 | | **1.44** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.202 | J | **0.18** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Fluoranthene | NELAP | 0.202 | | **3.33** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Fluorene | NELAP | 0.202 | J | **0.12** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Pyrene | NELAP | 0.202 | | **3.11** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| TPH-DRO (C10 - C21) | | 71.4 | J | **40** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| TPH-ORO (C21 - C35) | | 71.4 | J | **65** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.9** | %REC | 5 | 01/16/2016 0:39 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **69.7** | %REC | 5 | 01/16/2016 0:39 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **105.9** | %REC | 5 | 01/16/2016 0:39 | 115592 |

*Elevated reporting limit due to sample extract composition.*

| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,1-Dichloro-2-propanone | | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-012
**Client Sample ID:** SCI-67A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 11:05

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 2-Butanone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 2-Hexanone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 2-Nitropropane | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Acetone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Acetonitrile | NELAP | 94.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Acrolein | NELAP | 94.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Acrylonitrile | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Bromomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Chloroethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Chloromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Cyclohexanone | | 94.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Dichlorodifluoromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Iodomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-012 **Client Sample ID:** SCI-67A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 11:05

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Methylacrylate | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Methylene chloride | NELAP | 4.7 | J | **1.2** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Naphthalene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| n-Heptane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| n-Hexane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Nitrobenzene | NELAP | 94.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Propionitrile | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| tert-Butyl alcohol | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Tetrahydrofuran | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| TPH - GRO (C6 - C10) | | 471 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Vinyl acetate | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **99.9** | %REC | 1 | 01/15/2016 2:05 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | S | **120.9** | %REC | 1 | 01/15/2016 2:05 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **111.6** | %REC | 1 | 01/15/2016 2:05 | 115652 |

*Surrogate recovery is outside QC limits due to matrix interference.*

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-013
**Client Sample ID:** SCI-67B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **22.4** | % | 1 | 01/15/2016 17:19 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **4.68** | mg/Kg-dry | 1 | 01/15/2016 15:50 | 115618 |
| Barium | NELAP | 0.24 | | **89.3** | mg/Kg-dry | 1 | 01/15/2016 15:50 | 115618 |
| Cadmium | NELAP | 0.19 | J | **0.16** | mg/Kg-dry | 1 | 01/15/2016 15:50 | 115618 |
| Chromium | NELAP | 0.48 | | **17.1** | mg/Kg-dry | 1 | 01/15/2016 15:50 | 115618 |
| Lead | NELAP | 1.44 | | **8.78** | mg/Kg-dry | 1 | 01/15/2016 15:50 | 115618 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/15/2016 15:50 | 115618 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/15/2016 15:50 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.021** | mg/Kg-dry | 1 | 01/15/2016 10:33 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Anthracene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Benzo(a)anthracene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Benzo(a)pyrene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Chrysene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Fluoranthene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Fluorene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Pyrene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| TPH-DRO (C10 - C21) | | 15.3 | J | **8.0** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| TPH-ORO (C21 - C35) | | 15.3 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **59.5** | %REC | 1 | 01/15/2016 17:59 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **65.7** | %REC | 1 | 01/15/2016 17:59 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **97.2** | %REC | 1 | 01/15/2016 17:59 | 115592 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,1-Dichloro-2-propanone | | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-013
**Client Sample ID:** SCI-67B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 2-Butanone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 2-Hexanone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 2-Nitropropane | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Acetone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Acetonitrile | NELAP | 94.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Acrolein | NELAP | 94.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Acrylonitrile | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Bromomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Chloroethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Chloromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Cyclohexanone | | 94.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Dichlorodifluoromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Iodomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Methacrylonitrile | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-013 **Client Sample ID:** SCI-67B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Methylacrylate | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Methylene chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Naphthalene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| n-Heptane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| n-Hexane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Nitrobenzene | NELAP | 94.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Propionitrile | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| tert-Butyl alcohol | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Tetrahydrofuran | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| TPH - GRO (C6 - C10) | | 471 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Vinyl acetate | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **105.0** | %REC | 1 | 01/15/2016 2:31 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.0** | %REC | 1 | 01/15/2016 2:31 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **95.5** | %REC | 1 | 01/15/2016 2:31 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-014
**Client Sample ID:** SCI-67D (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.8** | % | 1 | 01/15/2016 17:19 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **5.27** | mg/Kg-dry | 1 | 01/15/2016 15:54 | 115618 |
| Barium | NELAP | 0.24 | | **84.2** | mg/Kg-dry | 1 | 01/15/2016 15:54 | 115618 |
| Cadmium | NELAP | 0.19 | J | **0.17** | mg/Kg-dry | 1 | 01/15/2016 15:54 | 115618 |
| Chromium | NELAP | 0.47 | | **17.7** | mg/Kg-dry | 1 | 01/15/2016 15:54 | 115618 |
| Lead | NELAP | 1.42 | | **8.49** | mg/Kg-dry | 1 | 01/15/2016 15:54 | 115618 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/15/2016 15:54 | 115618 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/15/2016 15:54 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.031** | mg/Kg-dry | 1 | 01/15/2016 10:35 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Anthracene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Chrysene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Fluoranthene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Fluorene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Pyrene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| TPH-DRO (C10 - C21) | | 15.3 | J | **8.0** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| TPH-ORO (C21 - C35) | | 15.3 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **74.1** | %REC | 1 | 01/15/2016 11:30 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **69.4** | %REC | 1 | 01/15/2016 11:30 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **89.2** | %REC | 1 | 01/15/2016 11:30 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,1-Dichloro-2-propanone | | 46.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-014 **Client Sample ID:** SCI-67D (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 2-Butanone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 2-Hexanone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 2-Nitropropane | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Acetone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Acetonitrile | NELAP | 92.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Acrolein | NELAP | 92.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Cyclohexanone | | 92.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Iodomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Methacrylonitrile | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-014
**Client Sample ID:** SCI-67D (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Methylene chloride | NELAP | 4.6 | J | **1.4** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| n-Heptane | | 18.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| n-Hexane | | 18.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Nitrobenzene | NELAP | 92.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Propionitrile | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| tert-Butyl alcohol | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Tetrahydrofuran | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| TPH - GRO (C6 - C10) | | 461 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Vinyl acetate | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.6** | %REC | 1 | 01/15/2016 2:57 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.7** | %REC | 1 | 01/15/2016 2:57 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **97.7** | %REC | 1 | 01/15/2016 2:57 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-015 **Client Sample ID:** SCI-68A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.5** | % | 1 | 01/15/2016 17:20 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **11.1** | mg/Kg-dry | 1 | 01/15/2016 15:58 | 115618 |
| Barium | NELAP | 0.25 | | **210** | mg/Kg-dry | 1 | 01/15/2016 15:58 | 115618 |
| Cadmium | NELAP | 0.20 | J | **0.17** | mg/Kg-dry | 1 | 01/15/2016 15:58 | 115618 |
| Chromium | NELAP | 0.49 | | **20.2** | mg/Kg-dry | 1 | 01/15/2016 15:58 | 115618 |
| Lead | NELAP | 1.47 | | **13.3** | mg/Kg-dry | 1 | 01/15/2016 15:58 | 115618 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 01/15/2016 15:58 | 115618 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 01/15/2016 15:58 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.031** | mg/Kg-dry | 1 | 01/15/2016 10:38 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Anthracene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Chrysene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Fluoranthene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Fluorene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Pyrene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| TPH-DRO (C10 - C21) | | 14.5 | J | **7.5** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| TPH-ORO (C21 - C35) | | 14.5 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **74.6** | %REC | 1 | 01/15/2016 12:00 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **69.9** | %REC | 1 | 01/15/2016 12:00 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **93.2** | %REC | 1 | 01/15/2016 12:00 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,1-Dichloro-2-propanone | | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-015 **Client Sample ID:** SCI-68A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 2-Butanone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 2-Hexanone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 2-Nitropropane | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Acetone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Acetonitrile | NELAP | 87.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Acrolein | NELAP | 87.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Acrylonitrile | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Bromomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Chloroethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Chloromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Cyclohexanone | | 87.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Dichlorodifluoromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Iodomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Methacrylonitrile | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-015 **Client Sample ID:** SCI-68A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Methylacrylate | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Naphthalene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| n-Heptane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| n-Hexane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Nitrobenzene | NELAP | 87.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Propionitrile | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| tert-Butyl alcohol | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Tetrahydrofuran | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| TPH - GRO (C6 - C10) | | 440 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Vinyl acetate | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **109.9** | %REC | 1 | 01/15/2016 3:23 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.9** | %REC | 1 | 01/15/2016 3:23 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **96.5** | %REC | 1 | 01/15/2016 3:23 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-016
**Client Sample ID:** SCI-68B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 12:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.7** | % | 1 | 01/15/2016 17:21 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **6.11** | mg/Kg-dry | 1 | 01/15/2016 16:01 | 115618 |
| Barium | NELAP | 0.23 | | **123** | mg/Kg-dry | 1 | 01/15/2016 16:01 | 115618 |
| Cadmium | NELAP | 0.19 | | **0.20** | mg/Kg-dry | 1 | 01/15/2016 16:01 | 115618 |
| Chromium | NELAP | 0.46 | | **18.9** | mg/Kg-dry | 1 | 01/15/2016 16:01 | 115618 |
| Lead | NELAP | 1.39 | | **8.75** | mg/Kg-dry | 1 | 01/15/2016 16:01 | 115618 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 01/15/2016 16:01 | 115618 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/15/2016 16:01 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.025** | mg/Kg-dry | 1 | 01/15/2016 10:50 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Chrysene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Fluorene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| TPH-DRO (C10 - C21) | | 14.9 | J | **7.8** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| TPH-ORO (C21 - C35) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **72.8** | %REC | 1 | 01/15/2016 12:30 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.8** | %REC | 1 | 01/15/2016 12:30 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **89.4** | %REC | 1 | 01/15/2016 12:30 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,1-Dichloro-2-propanone | | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-016 **Client Sample ID:** SCI-68B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 2-Butanone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 2-Hexanone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 2-Nitropropane | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Acetone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Acetonitrile | NELAP | 89.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Acrolein | NELAP | 89.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Acrylonitrile | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Bromomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Chloroethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Chloromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Cyclohexanone | | 89.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Dichlorodifluoromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Iodomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Methacrylonitrile | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-016
**Client Sample ID:** SCI-68B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 12:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Methylacrylate | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Methylene chloride | NELAP | 4.4 | J | **1.2** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Naphthalene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| n-Heptane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| n-Hexane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Nitrobenzene | NELAP | 89.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Propionitrile | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| tert-Butyl alcohol | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Tetrachloroethene | NELAP | 4.4 | | **6.6** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Tetrahydrofuran | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| TPH - GRO (C6 - C10) | | 445 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Vinyl acetate | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.3** | %REC | 1 | 01/15/2016 3:49 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.6** | %REC | 1 | 01/15/2016 3:49 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **97.1** | %REC | 1 | 01/15/2016 3:49 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-017 **Client Sample ID:** SCI-69A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.9** | % | 1 | 01/15/2016 17:22 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **8.91** | mg/Kg-dry | 1 | 01/15/2016 16:12 | 115618 |
| Barium | NELAP | 0.23 | | **132** | mg/Kg-dry | 1 | 01/15/2016 16:12 | 115618 |
| Cadmium | NELAP | 0.19 | | **0.42** | mg/Kg-dry | 1 | 01/15/2016 16:12 | 115618 |
| Chromium | NELAP | 0.46 | | **27.8** | mg/Kg-dry | 1 | 01/15/2016 16:12 | 115618 |
| Lead | NELAP | 1.39 | | **34.0** | mg/Kg-dry | 1 | 01/15/2016 16:12 | 115618 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 01/15/2016 16:12 | 115618 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/15/2016 16:12 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.355** | mg/Kg-dry | 1 | 01/15/2016 10:53 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0804 | J | **0.046** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Anthracene | NELAP | 0.0804 | | **0.124** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0804 | | **0.532** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0804 | | **0.503** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0804 | | **0.697** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0804 | | **0.239** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Chrysene | NELAP | 0.0804 | | **0.505** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0804 | J | **0.058** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Fluoranthene | NELAP | 0.0804 | | **1.15** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Fluorene | NELAP | 0.0804 | | **ND** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Pyrene | NELAP | 0.0804 | | **1.07** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| TPH-DRO (C10 - C21) | | 28.4 | J | **18** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| TPH-ORO (C21 - C35) | | 28.4 | | **36.6** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **58.8** | %REC | 2 | 01/19/2016 12:20 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **53.8** | %REC | 2 | 01/19/2016 12:20 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **72.6** | %REC | 2 | 01/19/2016 12:20 | 115616 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,1-Dichloro-2-propanone | | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-017 **Client Sample ID:** SCI-69A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 2-Butanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 2-Hexanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 2-Nitropropane | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Acetone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Acetonitrile | NELAP | 91.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Acrolein | NELAP | 91.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Acrylonitrile | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Bromomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Chloroethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Chloromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Cyclohexanone | | 91.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Dichlorodifluoromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Iodomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-017 **Client Sample ID:** SCI-69A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Methylacrylate | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Naphthalene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| n-Heptane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| n-Hexane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Nitrobenzene | NELAP | 91.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Propionitrile | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| tert-Butyl alcohol | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Tetrachloroethene | NELAP | 4.6 | J | **1.1** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Tetrahydrofuran | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| TPH - GRO (C6 - C10) | | 457 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Vinyl acetate | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.6** | %REC | 1 | 01/15/2016 4:15 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **111.0** | %REC | 1 | 01/15/2016 4:15 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **100.1** | %REC | 1 | 01/15/2016 4:15 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-018 **Client Sample ID:** SCI-69B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.1** | % | 1 | 01/15/2016 17:22 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **7.41** | mg/Kg-dry | 1 | 01/15/2016 16:16 | 115618 |
| Barium | NELAP | 0.23 | | **85.2** | mg/Kg-dry | 1 | 01/15/2016 16:16 | 115618 |
| Cadmium | NELAP | 0.19 | | **0.20** | mg/Kg-dry | 1 | 01/15/2016 16:16 | 115618 |
| Chromium | NELAP | 0.46 | S | **33.2** | mg/Kg-dry | 1 | 01/15/2016 16:16 | 115618 |
| Lead | NELAP | 1.39 | | **17.6** | mg/Kg-dry | 1 | 01/15/2016 16:16 | 115618 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 01/15/2016 16:16 | 115618 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/15/2016 16:16 | 115618 |
| *Cr- MS or MSD did not recover within control limits due to sample composition. Verified by re-prep and re-analysis.* | | | | | | | | |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.038** | mg/Kg-dry | 1 | 01/15/2016 10:55 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Chrysene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Fluorene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Pyrene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| TPH-DRO (C10 - C21) | | 14.8 | J | **7.7** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| TPH-ORO (C21 - C35) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **72.6** | %REC | 1 | 01/15/2016 13:00 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **69.7** | %REC | 1 | 01/15/2016 13:00 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **91.6** | %REC | 1 | 01/15/2016 13:00 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,1-Dichloro-2-propanone | | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-018 **Client Sample ID:** SCI-69B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1-Chlorobutane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 2-Butanone | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 2-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 2-Hexanone | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 2-Nitropropane | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 4-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Acetone | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Acetonitrile | NELAP | 84.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Acrolein | NELAP | 84.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Acrylonitrile | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Allyl chloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Bromobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Bromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Bromodichloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Bromoform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Bromomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Carbon disulfide | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Carbon tetrachloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Chlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Chloroethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Chloroform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Chloromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Cyclohexanone | | 84.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Dibromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Dibromomethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Dichlorodifluoromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Diisopropyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Ethyl ether | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Ethyl methacrylate | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Ethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Ethyl-tert-butyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Hexachlorobutadiene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Hexachloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Iodomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Isopropylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| m,p-Xylenes | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-018 **Client Sample ID:** SCI-69B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Methyl Methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Methylacrylate | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Methylene chloride | NELAP | 4.2 | J | **1.0** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Naphthalene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| n-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| n-Heptane | | 17.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| n-Hexane | | 17.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Nitrobenzene | NELAP | 84.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| n-Propylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| o-Xylene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Pentachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| p-Isopropyltoluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Propionitrile | NELAP | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| sec-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Styrene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| tert-Amyl methyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| tert-Butyl alcohol | NELAP | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| tert-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Tetrachloroethene | NELAP | 4.2 | | **16.1** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Tetrahydrofuran | NELAP | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Toluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| TPH - GRO (C6 - C10) | | 424 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Trichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Trichlorofluoromethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Vinyl acetate | NELAP | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Xylenes, Total | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.6** | %REC | 1 | 01/15/2016 4:42 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **97.5** | %REC | 1 | 01/15/2016 4:42 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **96.1** | %REC | 1 | 01/15/2016 4:42 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-019
**Client Sample ID:** SCI-70A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 13:05

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.8** | % | 1 | 01/15/2016 17:23 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **8.46** | mg/Kg-dry | 1 | 01/15/2016 16:27 | 115618 |
| Barium | NELAP | 0.25 | | **166** | mg/Kg-dry | 1 | 01/15/2016 16:27 | 115618 |
| Cadmium | NELAP | 0.20 | | **0.59** | mg/Kg-dry | 1 | 01/15/2016 16:27 | 115618 |
| Chromium | NELAP | 0.50 | | **19.0** | mg/Kg-dry | 1 | 01/15/2016 16:27 | 115618 |
| Lead | NELAP | 1.50 | | **117** | mg/Kg-dry | 1 | 01/15/2016 16:27 | 115618 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/15/2016 16:27 | 115618 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/15/2016 16:27 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.555** | mg/Kg-dry | 1 | 01/15/2016 10:58 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.202 | | **0.317** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Anthracene | NELAP | 0.202 | | **0.658** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Benzo(a)anthracene | NELAP | 0.202 | | **2.19** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Benzo(a)pyrene | NELAP | 0.202 | | **1.94** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.202 | | **2.87** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.202 | | **0.875** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Chrysene | NELAP | 0.202 | | **2.02** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.202 | J | **0.18** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Fluoranthene | NELAP | 0.202 | | **5.11** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Fluorene | NELAP | 0.202 | | **0.216** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Pyrene | NELAP | 0.202 | | **4.50** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| TPH-DRO (C10 - C21) | | 71.3 | J | **43** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| TPH-ORO (C21 - C35) | | 71.3 | | **79.7** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **54.2** | %REC | 5 | 01/19/2016 13:20 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **54.2** | %REC | 5 | 01/19/2016 13:20 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **72.0** | %REC | 5 | 01/19/2016 13:20 | 115616 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,1-Dichloro-2-propanone | | 41.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 8.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-019 **Client Sample ID:** SCI-70A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 13:05

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1-Chlorobutane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 2-Butanone | NELAP | 41.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 2-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 2-Hexanone | NELAP | 41.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 2-Nitropropane | NELAP | 41.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 4-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 41.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Acetone | NELAP | 41.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Acetonitrile | NELAP | 82.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Acrolein | NELAP | 82.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Acrylonitrile | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Allyl chloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Bromobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Bromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Bromodichloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Bromoform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Bromomethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Carbon disulfide | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Carbon tetrachloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Chlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Chloroethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Chloroform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Chloromethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Cyclohexanone | | 82.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Dibromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Dibromomethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Dichlorodifluoromethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Diisopropyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Ethyl ether | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Ethyl methacrylate | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Ethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Ethyl-tert-butyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Hexachlorobutadiene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Hexachloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Iodomethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Isopropylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| m,p-Xylenes | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-019 **Client Sample ID:** SCI-70A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 13:05

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 41.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Methyl Methacrylate | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Methylacrylate | NELAP | 8.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Methylene chloride | NELAP | 4.1 | J | **1.1** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Naphthalene | NELAP | 8.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| n-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| n-Heptane | | 16.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| n-Hexane | | 16.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Nitrobenzene | NELAP | 82.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| n-Propylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| o-Xylene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Pentachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| p-Isopropyltoluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Propionitrile | NELAP | 41.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| sec-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Styrene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| tert-Amyl methyl ether | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| tert-Butyl alcohol | NELAP | 41.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| tert-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Tetrachloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Tetrahydrofuran | NELAP | 41.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Toluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| TPH - GRO (C6 - C10) | | 411 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Trichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Trichlorofluoromethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Vinyl acetate | NELAP | 41.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Vinyl chloride | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Xylenes, Total | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **97.4** | %REC | 1 | 01/15/2016 5:08 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.6** | %REC | 1 | 01/15/2016 5:08 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **98.6** | %REC | 1 | 01/15/2016 5:08 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-020
**Client Sample ID:** SCI-70B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.8** | % | 1 | 01/15/2016 17:23 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **4.63** | mg/Kg-dry | 1 | 01/15/2016 16:31 | 115618 |
| Barium | NELAP | 0.24 | | **97.5** | mg/Kg-dry | 1 | 01/15/2016 16:31 | 115618 |
| Cadmium | NELAP | 0.19 | J | **0.16** | mg/Kg-dry | 1 | 01/18/2016 19:08 | 115618 |
| Chromium | NELAP | 0.48 | | **19.8** | mg/Kg-dry | 1 | 01/15/2016 16:31 | 115618 |
| Lead | NELAP | 1.44 | | **9.10** | mg/Kg-dry | 1 | 01/15/2016 16:31 | 115618 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/15/2016 16:31 | 115618 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/15/2016 16:31 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.023** | mg/Kg-dry | 1 | 01/15/2016 11:00 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Chrysene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Fluorene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| TPH-DRO (C10 - C21) | | 14.9 | J | **7.8** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| TPH-ORO (C21 - C35) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **69.2** | %REC | 1 | 01/15/2016 13:30 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.1** | %REC | 1 | 01/15/2016 13:30 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **91.1** | %REC | 1 | 01/15/2016 13:30 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,1-Dichloro-2-propanone | | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-020 **Client Sample ID:** SCI-70B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 2-Butanone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 2-Hexanone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 2-Nitropropane | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Acetone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Acetonitrile | NELAP | 89.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Acrolein | NELAP | 89.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Acrylonitrile | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Bromomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Chloroethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Chloromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Cyclohexanone | | 89.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Dichlorodifluoromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Iodomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Methacrylonitrile | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-020 **Client Sample ID:** SCI-70B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Methylacrylate | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Methylene chloride | NELAP | 4.4 | J | **1.2** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Naphthalene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| n-Heptane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| n-Hexane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Nitrobenzene | NELAP | 89.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Propionitrile | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| tert-Butyl alcohol | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Tetrahydrofuran | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| TPH - GRO (C6 - C10) | | 445 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Vinyl acetate | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.4** | %REC | 1 | 01/15/2016 5:34 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.1** | %REC | 1 | 01/15/2016 5:34 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **96.1** | %REC | 1 | 01/15/2016 5:34 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-021
**Client Sample ID:** SCI-70D (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.1** | % | 1 | 01/15/2016 17:23 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **4.69** | mg/Kg-dry | 1 | 01/15/2016 16:35 | 115618 |
| Barium | NELAP | 0.25 | | **99.0** | mg/Kg-dry | 1 | 01/15/2016 16:35 | 115618 |
| Cadmium | NELAP | 0.20 | J | **0.17** | mg/Kg-dry | 1 | 01/15/2016 16:35 | 115618 |
| Chromium | NELAP | 0.49 | | **18.7** | mg/Kg-dry | 1 | 01/15/2016 16:35 | 115618 |
| Lead | NELAP | 1.47 | | **8.93** | mg/Kg-dry | 1 | 01/15/2016 16:35 | 115618 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 01/15/2016 16:35 | 115618 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 01/15/2016 16:35 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.024** | mg/Kg-dry | 1 | 01/15/2016 11:03 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Anthracene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Chrysene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Fluoranthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Fluorene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Pyrene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| TPH-DRO (C10 - C21) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| TPH-ORO (C21 - C35) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **55.1** | %REC | 1 | 01/15/2016 14:00 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **55.7** | %REC | 1 | 01/15/2016 14:00 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **80.4** | %REC | 1 | 01/15/2016 14:00 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,1-Dichloro-2-propanone | | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-021
**Client Sample ID:** SCI-70D (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 2-Butanone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 2-Hexanone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 2-Nitropropane | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Acetone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Acetonitrile | NELAP | 91.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Acrolein | NELAP | 91.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Cyclohexanone | | 91.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Iodomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Methacrylonitrile | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-021 **Client Sample ID:** SCI-70D (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Methylene chloride | NELAP | 4.6 | J | **1.1** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| n-Heptane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| n-Hexane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Nitrobenzene | NELAP | 91.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Propionitrile | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| tert-Butyl alcohol | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Tetrahydrofuran | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| TPH - GRO (C6 - C10) | | 458 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Vinyl acetate | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **99.8** | %REC | 1 | 01/15/2016 6:01 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.0** | %REC | 1 | 01/15/2016 6:01 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **97.2** | %REC | 1 | 01/15/2016 6:01 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-022 **Client Sample ID:** SCI-71A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 13:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.9** | % | 1 | 01/15/2016 17:24 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **9.07** | mg/Kg-dry | 1 | 01/18/2016 19:44 | 115661 |
| Barium | NELAP | 0.25 | | **190** | mg/Kg-dry | 1 | 01/18/2016 19:44 | 115661 |
| Cadmium | NELAP | 0.20 | | **0.66** | mg/Kg-dry | 1 | 01/18/2016 19:44 | 115661 |
| Chromium | NELAP | 0.50 | | **17.9** | mg/Kg-dry | 1 | 01/18/2016 19:44 | 115661 |
| Lead | NELAP | 1.50 | | **187** | mg/Kg-dry | 1 | 01/18/2016 19:44 | 115661 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/18/2016 19:44 | 115661 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/18/2016 19:44 | 115661 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.253** | mg/Kg-dry | 1 | 01/15/2016 11:10 | 115632 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0831 | | **ND** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Anthracene | NELAP | 0.0831 | | **ND** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0831 | | **0.200** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0831 | | **0.197** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0831 | | **0.266** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0831 | | **0.102** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Chrysene | NELAP | 0.0831 | | **0.218** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0831 | | **ND** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Fluoranthene | NELAP | 0.0831 | | **0.494** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Fluorene | NELAP | 0.0831 | | **ND** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Pyrene | NELAP | 0.0831 | | **0.431** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| TPH-DRO (C10 - C21) | | 29.3 | J | **16** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| TPH-ORO (C21 - C35) | | 29.3 | J | **20** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **60.0** | %REC | 2 | 01/19/2016 11:50 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **57.7** | %REC | 2 | 01/19/2016 11:50 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **75.8** | %REC | 2 | 01/19/2016 11:50 | 115616 |

*Elevated reporting limit due to sample extract composition.*

| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,1-Dichloro-2-propanone | | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-022 **Client Sample ID:** SCI-71A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 13:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 2-Butanone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 2-Hexanone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 2-Nitropropane | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Acetone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Acetonitrile | NELAP | 94.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Acrolein | NELAP | 94.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Acrylonitrile | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Bromomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Chloroethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Chloromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Cyclohexanone | | 94.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Dichlorodifluoromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Iodomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-022
**Client Sample ID:** SCI-71A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 13:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Methylacrylate | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Methylene chloride | NELAP | 4.7 | J | **1.2** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Naphthalene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| n-Heptane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| n-Hexane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Nitrobenzene | NELAP | 94.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Propionitrile | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| tert-Butyl alcohol | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Tetrahydrofuran | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| TPH - GRO (C6 - C10) | | 471 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Vinyl acetate | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.1** | %REC | 1 | 01/15/2016 6:27 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.0** | %REC | 1 | 01/15/2016 6:27 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **95.6** | %REC | 1 | 01/15/2016 6:27 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-023
**Client Sample ID:** SCI-71B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 13:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.3** | % | 1 | 01/15/2016 17:24 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **6.31** | mg/Kg-dry | 1 | 01/18/2016 19:49 | 115661 |
| Barium | NELAP | 0.25 | | **146** | mg/Kg-dry | 1 | 01/18/2016 19:49 | 115661 |
| Cadmium | NELAP | 0.20 | J | **0.19** | mg/Kg-dry | 1 | 01/18/2016 19:49 | 115661 |
| Chromium | NELAP | 0.50 | | **18.5** | mg/Kg-dry | 1 | 01/18/2016 19:49 | 115661 |
| Lead | NELAP | 1.50 | | **8.89** | mg/Kg-dry | 1 | 01/18/2016 19:49 | 115661 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/18/2016 19:49 | 115661 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/18/2016 19:49 | 115661 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.024** | mg/Kg-dry | 1 | 01/15/2016 11:12 | 115632 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Anthracene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Chrysene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Fluoranthene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Fluorene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Pyrene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| TPH-DRO (C10 - C21) | | 15.2 | J | **7.8** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| TPH-ORO (C21 - C35) | | 15.2 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **61.9** | %REC | 1 | 01/15/2016 16:00 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **64.6** | %REC | 1 | 01/15/2016 16:00 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **90.5** | %REC | 1 | 01/15/2016 16:00 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,1-Dichloro-2-propanone | | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-023
**Client Sample ID:** SCI-71B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 13:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1-Chlorobutane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 2-Butanone | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 2-Chlorotoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 2-Hexanone | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 2-Nitropropane | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 4-Chlorotoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Acetone | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Acetonitrile | NELAP | 91.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Acrolein | NELAP | 91.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Acrylonitrile | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Allyl chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Benzene | NELAP | 0.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Bromobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Bromochloromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Bromodichloromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Bromoform | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Bromomethane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Carbon disulfide | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Carbon tetrachloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Chlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Chloroethane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Chloroform | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Chloromethane | NELAP | 9.2 | J | **7.5** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Cyclohexanone | | 91.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Dibromochloromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Dibromomethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Dichlorodifluoromethane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Diisopropyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Ethyl ether | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Ethyl methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Ethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Ethyl-tert-butyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Hexachlorobutadiene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Hexachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Iodomethane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Isopropylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| m,p-Xylenes | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Methacrylonitrile | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-023
**Client Sample ID:** SCI-71B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 13:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Methylene chloride | NELAP | 4.6 | J | **1.2** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| n-Heptane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| n-Hexane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Nitrobenzene | NELAP | 91.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Propionitrile | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| tert-Butyl alcohol | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Tetrahydrofuran | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| TPH - GRO (C6 - C10) | | 458 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Vinyl acetate | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.6** | %REC | 1 | 01/15/2016 6:53 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **96.7** | %REC | 1 | 01/15/2016 6:53 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **96.9** | %REC | 1 | 01/15/2016 6:53 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-024 **Client Sample ID:** TB-10

**Matrix:** TRIP BLANK **Collection Date:** 01/13/2016 17:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Acetone | NELAP | 25.0 | J | **12** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-024 **Client Sample ID:** TB-10

**Matrix:** TRIP BLANK **Collection Date:** 01/13/2016 17:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-024
**Client Sample ID:** TB-10
**Matrix:** TRIP BLANK
**Collection Date:** 01/13/2016 17:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **98.7** | %REC | 1 | 01/14/2016 12:22 | 115642 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **101.7** | %REC | 1 | 01/14/2016 12:22 | 115642 |
| Surr: Toluene-d8 | | 84.3-114 | | **97.6** | %REC | 1 | 01/14/2016 12:22 | 115642 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-025
**Client Sample ID:** SCI-75A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 14:20

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.2** | % | 1 | 01/15/2016 17:25 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **9.50** | mg/Kg-dry | 1 | 01/18/2016 19:55 | 115661 |
| Barium | NELAP | 0.25 | | **197** | mg/Kg-dry | 1 | 01/18/2016 19:55 | 115661 |
| Cadmium | NELAP | 0.20 | | **0.59** | mg/Kg-dry | 1 | 01/18/2016 19:55 | 115661 |
| Chromium | NELAP | 0.50 | | **17.2** | mg/Kg-dry | 1 | 01/18/2016 19:55 | 115661 |
| Lead | NELAP | 1.50 | | **121** | mg/Kg-dry | 1 | 01/18/2016 19:55 | 115661 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/18/2016 19:55 | 115661 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/18/2016 19:55 | 115661 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.301** | mg/Kg-dry | 1 | 01/15/2016 11:20 | 115632 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0415 | | **ND** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Anthracene | NELAP | 0.0415 | | **ND** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0415 | | **0.0797** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0415 | | **0.0820** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0415 | | **0.113** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0415 | J | **0.032** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Chrysene | NELAP | 0.0415 | | **0.0813** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0415 | | **ND** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Fluoranthene | NELAP | 0.0415 | | **0.168** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Fluorene | NELAP | 0.0415 | | **ND** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Pyrene | NELAP | 0.0415 | | **0.158** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| TPH-DRO (C10 - C21) | | 14.6 | J | **9.7** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| TPH-ORO (C21 - C35) | | 14.6 | J | **11** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **51.2** | %REC | 1 | 01/18/2016 17:23 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **52.0** | %REC | 1 | 01/18/2016 17:23 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **68.5** | %REC | 1 | 01/18/2016 17:23 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,1-Dichloro-2-propanone | | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-025 **Client Sample ID:** SCI-75A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 14:20

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1-Chlorobutane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 2-Butanone | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 2-Chlorotoluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 2-Hexanone | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 2-Nitropropane | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 4-Chlorotoluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Acetone | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Acetonitrile | NELAP | 85.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Acrolein | NELAP | 85.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Acrylonitrile | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Allyl chloride | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Benzene | NELAP | 0.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Bromobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Bromochloromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Bromodichloromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Bromoform | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Bromomethane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Carbon disulfide | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Carbon tetrachloride | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Chlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Chloroethane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Chloroform | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Chloromethane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Cyclohexanone | | 85.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Dibromochloromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Dibromomethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Dichlorodifluoromethane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Diisopropyl ether | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Ethyl ether | NELAP | 4.3 | J | **2.6** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Ethyl methacrylate | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Ethylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Ethyl-tert-butyl ether | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Hexachlorobutadiene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Hexachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Iodomethane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Isopropylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| m,p-Xylenes | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Methacrylonitrile | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-025
**Client Sample ID:** SCI-75A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 14:20

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Methylacrylate | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Methylene chloride | NELAP | 4.3 | J | **2.3** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Naphthalene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| n-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| n-Heptane | | 17.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| n-Hexane | | 17.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Nitrobenzene | NELAP | 85.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| n-Propylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| o-Xylene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Pentachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| p-Isopropyltoluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Propionitrile | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| sec-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Styrene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| tert-Amyl methyl ether | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| tert-Butyl alcohol | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| tert-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Tetrachloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Tetrahydrofuran | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Toluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| TPH - GRO (C6 - C10) | | 426 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Trichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Trichlorofluoromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Vinyl acetate | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Xylenes, Total | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.4** | %REC | 1 | 01/15/2016 7:19 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **112.6** | %REC | 1 | 01/15/2016 7:19 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **106.3** | %REC | 1 | 01/15/2016 7:19 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-026
**Client Sample ID:** SCI-75B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 14:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.3** | % | 1 | 01/15/2016 17:25 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **4.65** | mg/Kg-dry | 1 | 01/18/2016 20:01 | 115661 |
| Barium | NELAP | 0.24 | | **75.5** | mg/Kg-dry | 1 | 01/18/2016 20:01 | 115661 |
| Cadmium | NELAP | 0.19 | J | **0.11** | mg/Kg-dry | 1 | 01/18/2016 20:01 | 115661 |
| Chromium | NELAP | 0.47 | | **19.8** | mg/Kg-dry | 1 | 01/18/2016 20:01 | 115661 |
| Lead | NELAP | 1.42 | | **9.98** | mg/Kg-dry | 1 | 01/18/2016 20:01 | 115661 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/18/2016 20:01 | 115661 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/18/2016 20:01 | 115661 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.025** | mg/Kg-dry | 1 | 01/15/2016 11:22 | 115632 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Anthracene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Chrysene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Fluoranthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Fluorene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Pyrene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| TPH-DRO (C10 - C21) | | 15.0 | J | **7.9** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| TPH-ORO (C21 - C35) | | 15.0 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **63.7** | %REC | 1 | 01/15/2016 23:39 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.2** | %REC | 1 | 01/15/2016 23:39 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **92.9** | %REC | 1 | 01/15/2016 23:39 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,1-Dichloro-2-propanone | | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.4 | J | **2.0** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-026 **Client Sample ID:** SCI-75B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 14:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1-Chlorobutane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 2-Butanone | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 2-Chlorotoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 2-Hexanone | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 2-Nitropropane | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 4-Chlorotoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Acetone | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Acetonitrile | NELAP | 88.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Acrolein | NELAP | 88.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Acrylonitrile | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Allyl chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Benzene | NELAP | 0.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Bromobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Bromochloromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Bromodichloromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Bromoform | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Bromomethane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Carbon disulfide | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Carbon tetrachloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Chlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Chloroethane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Chloroform | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Chloromethane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Cyclohexanone | | 88.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Dibromochloromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Dibromomethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Dichlorodifluoromethane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Diisopropyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Ethyl ether | NELAP | 4.4 | J | **1.4** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Ethyl methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Ethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Ethyl-tert-butyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Hexachlorobutadiene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Hexachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Iodomethane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Isopropylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| m,p-Xylenes | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Methacrylonitrile | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-026 **Client Sample ID:** SCI-75B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 14:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Methylacrylate | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Methylene chloride | NELAP | 4.4 | J | **1.4** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Naphthalene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| n-Heptane | | 17.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| n-Hexane | | 17.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Nitrobenzene | NELAP | 88.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Propionitrile | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| tert-Butyl alcohol | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Tetrahydrofuran | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| TPH - GRO (C6 - C10) | | 442 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Vinyl acetate | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **106.4** | %REC | 1 | 01/15/2016 7:45 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **96.8** | %REC | 1 | 01/15/2016 7:45 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **96.3** | %REC | 1 | 01/15/2016 7:45 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-027 **Client Sample ID:** SCI-77A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 14:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.4** | % | 1 | 01/15/2016 17:48 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **13.6** | mg/Kg-dry | 1 | 01/18/2016 20:07 | 115661 |
| Barium | NELAP | 0.24 | | **179** | mg/Kg-dry | 1 | 01/18/2016 20:07 | 115661 |
| Cadmium | NELAP | 0.19 | | **0.39** | mg/Kg-dry | 1 | 01/18/2016 20:07 | 115661 |
| Chromium | NELAP | 0.48 | | **22.0** | mg/Kg-dry | 1 | 01/18/2016 20:07 | 115661 |
| Lead | NELAP | 1.44 | | **100** | mg/Kg-dry | 1 | 01/18/2016 20:07 | 115661 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/18/2016 20:07 | 115661 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/18/2016 20:07 | 115661 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.112** | mg/Kg-dry | 1 | 01/15/2016 11:25 | 115632 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.205 | | **ND** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Anthracene | NELAP | 0.205 | J | **0.17** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Benzo(a)anthracene | NELAP | 0.205 | | **0.740** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Benzo(a)pyrene | NELAP | 0.205 | | **0.650** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.205 | | **0.932** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.205 | | **0.298** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Chrysene | NELAP | 0.205 | | **0.703** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.205 | | **ND** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Fluoranthene | NELAP | 0.205 | | **1.53** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Fluorene | NELAP | 0.205 | | **ND** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Pyrene | NELAP | 0.205 | | **1.38** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| TPH-DRO (C10 - C21) | | 72.4 | | **ND** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| TPH-ORO (C21 - C35) | | 72.4 | J | **45** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **50.9** | %REC | 5 | 01/19/2016 12:50 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **50.6** | %REC | 5 | 01/19/2016 12:50 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **70.0** | %REC | 5 | 01/19/2016 12:50 | 115616 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,1-Dichloro-2-propanone | | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-027 **Client Sample ID:** SCI-77A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 14:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,2-Dichloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1-Chlorobutane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 2-Butanone | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 2-Chlorotoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 2-Hexanone | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 2-Nitropropane | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 4-Chlorotoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Acetone | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Acetonitrile | NELAP | 92.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Acrolein | NELAP | 92.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Acrylonitrile | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Allyl chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Benzene | NELAP | 0.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Bromobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Bromochloromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Bromodichloromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Bromoform | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Bromomethane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Carbon disulfide | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Carbon tetrachloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Chlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Chloroethane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Chloroform | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Chloromethane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Cyclohexanone | | 92.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Dibromochloromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Dibromomethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Dichlorodifluoromethane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Diisopropyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Ethyl ether | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Ethyl methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Ethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Ethyl-tert-butyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Hexachlorobutadiene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Hexachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Iodomethane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Isopropylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| m,p-Xylenes | NELAP | 4.6 | J | **2.9** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-027 **Client Sample ID:** SCI-77A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 14:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Methylacrylate | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Naphthalene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| n-Heptane | | 18.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| n-Hexane | | 18.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Nitrobenzene | NELAP | 92.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Propionitrile | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| tert-Butyl alcohol | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Tetrahydrofuran | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Toluene | NELAP | 4.6 | J | **1.7** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| TPH - GRO (C6 - C10) | | 463 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Vinyl acetate | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Xylenes, Total | NELAP | 4.6 | J | **2.9** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.1** | %REC | 1 | 01/15/2016 8:11 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.3** | %REC | 1 | 01/15/2016 8:11 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **99.8** | %REC | 1 | 01/15/2016 8:11 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-028
**Client Sample ID:** SCI-77B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 15:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **22.1** | % | 1 | 01/15/2016 17:48 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **4.78** | mg/Kg-dry | 1 | 01/18/2016 20:13 | 115661 |
| Barium | NELAP | 0.24 | | **91.6** | mg/Kg-dry | 1 | 01/18/2016 20:13 | 115661 |
| Cadmium | NELAP | 0.19 | J | **0.15** | mg/Kg-dry | 1 | 01/18/2016 20:13 | 115661 |
| Chromium | NELAP | 0.48 | | **18.1** | mg/Kg-dry | 1 | 01/18/2016 20:13 | 115661 |
| Lead | NELAP | 1.44 | | **8.88** | mg/Kg-dry | 1 | 01/18/2016 20:13 | 115661 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/18/2016 20:13 | 115661 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/18/2016 20:13 | 115661 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.025** | mg/Kg-dry | 1 | 01/15/2016 11:27 | 115632 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Anthracene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Chrysene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Fluoranthene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Fluorene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Pyrene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| TPH-DRO (C10 - C21) | | 15.2 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| TPH-ORO (C21 - C35) | | 15.2 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **54.7** | %REC | 1 | 01/15/2016 14:30 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **58.3** | %REC | 1 | 01/15/2016 14:30 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **89.5** | %REC | 1 | 01/15/2016 14:30 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,1-Dichloro-2-propanone | | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-028 **Client Sample ID:** SCI-77B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 15:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 2-Butanone | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 2-Hexanone | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 2-Nitropropane | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Acetone | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Acetonitrile | NELAP | 94.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Acrolein | NELAP | 94.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Acrylonitrile | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Bromomethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Chloroethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Chloromethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Cyclohexanone | | 94.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Dichlorodifluoromethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Iodomethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Methacrylonitrile | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-028 **Client Sample ID:** SCI-77B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 15:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Methylacrylate | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Methylene chloride | NELAP | 4.7 | J | **1.4** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Naphthalene | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| n-Heptane | | 18.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| n-Hexane | | 18.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Nitrobenzene | NELAP | 94.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Propionitrile | NELAP | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| tert-Butyl alcohol | NELAP | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Tetrahydrofuran | NELAP | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| TPH - GRO (C6 - C10) | | 474 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Vinyl acetate | NELAP | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.0** | %REC | 1 | 01/15/2016 8:37 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **97.8** | %REC | 1 | 01/15/2016 8:37 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **99.0** | %REC | 1 | 01/15/2016 8:37 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-029 **Client Sample ID:** EB-6

**Matrix:** AQUEOUS **Collection Date:** 01/13/2016 15:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Acetone | NELAP | 25.0 | J | **13** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-029 **Client Sample ID:** EB-6

**Matrix:** AQUEOUS **Collection Date:** 01/13/2016 15:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-029
**Client Sample ID:** EB-6
**Matrix:** AQUEOUS
**Collection Date:** 01/13/2016 15:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **98.6** | %REC | 1 | 01/14/2016 12:49 | 115642 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **100.5** | %REC | 1 | 01/14/2016 12:49 | 115642 |
| Surr: Toluene-d8 | | 84.3-114 | | **98.9** | %REC | 1 | 01/14/2016 12:49 | 115642 |

# Quality Control Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697
**Report Date:** 19-Jan-16

## EPA SW846 3550C, 5035A, ASTM D2974

**Batch** R213852 **SampType:** LCS Units **%**
SampID: LCS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 01/15/2016 |

**Batch** R213852 **SampType:** LCSQC Units **%**
SampID: LCSQC

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 01/15/2016 |

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115618 **SampType:** MBLK Units **mg/Kg-dry**
SampID: MBLK-115618

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 01/15/2016 |
| Barium | 0.25 | | **< 0.25** | 0.2500 | 0 | 0 | -100 | 100 | 01/15/2016 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 01/18/2016 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 01/15/2016 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/18/2016 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/15/2016 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 01/15/2016 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 01/15/2016 |
| Silver | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/15/2016 |

**Batch** 115618 **SampType:** LCS Units **mg/Kg-dry**
SampID: LCS-115618

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **44.7** | 50.00 | 0 | 89.3 | 85 | 115 | 01/15/2016 |
| Barium | 0.25 | | **184** | 200.0 | 0 | 91.8 | 85 | 115 | 01/15/2016 |
| Cadmium | 0.20 | | **4.57** | 5.000 | 0 | 91.4 | 85 | 115 | 01/15/2016 |
| Cadmium | 0.20 | | **4.85** | 5.000 | 0 | 97.0 | 85 | 115 | 01/18/2016 |
| Chromium | 0.50 | | **19.7** | 20.00 | 0 | 98.4 | 85 | 115 | 01/15/2016 |
| Chromium | 0.50 | | **20.5** | 20.00 | 0 | 102.4 | 85 | 115 | 01/18/2016 |
| Lead | 1.50 | | **49.4** | 50.00 | 0 | 98.8 | 85 | 115 | 01/15/2016 |
| Selenium | 4.00 | | **45.6** | 50.00 | 0 | 91.2 | 85 | 115 | 01/15/2016 |
| Silver | 0.50 | | **4.41** | 5.000 | 0 | 88.2 | 85 | 115 | 01/15/2016 |

**Batch** 115618 **SampType:** MS Units **mg/Kg-dry**
SampID: 16010697-005AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.45 | | **49.3** | 49.02 | 7.931 | 84.5 | 75 | 125 | 01/15/2016 |
| Barium | 0.25 | | **262** | 196.1 | 67.79 | 99.0 | 75 | 125 | 01/15/2016 |
| Cadmium | 0.20 | | **4.56** | 4.902 | 0.06863 | 91.6 | 75 | 125 | 01/15/2016 |
| Chromium | 0.49 | | **59.1** | 19.61 | 39.40 | 100.7 | 75 | 125 | 01/18/2016 |
| Lead | 1.47 | | **62.4** | 49.02 | 13.76 | 99.3 | 75 | 125 | 01/15/2016 |
| Selenium | 3.92 | | **41.4** | 49.02 | 0 | 84.5 | 75 | 125 | 01/15/2016 |
| Silver | 0.49 | | **4.18** | 4.902 | 0 | 85.2 | 75 | 125 | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115618 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**

SampID: 16010697-005AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.45 | | **50.4** | 49.02 | 7.931 | 86.6 | 49.34 | 2.05 | 01/15/2016 |
| Barium | 0.25 | | **254** | 196.1 | 67.79 | 95.2 | 261.9 | 2.89 | 01/15/2016 |
| Cadmium | 0.20 | | **4.51** | 4.902 | 0.06863 | 90.6 | 4.559 | 1.08 | 01/15/2016 |
| Chromium | 0.49 | | **63.9** | 19.61 | 39.40 | 124.8 | 59.15 | 7.70 | 01/18/2016 |
| Lead | 1.47 | | **62.3** | 49.02 | 13.76 | 99.0 | 62.42 | 0.19 | 01/15/2016 |
| Selenium | 3.92 | | **42.3** | 49.02 | 0 | 86.2 | 41.43 | 1.99 | 01/15/2016 |
| Silver | 0.49 | | **4.19** | 4.902 | 0 | 85.4 | 4.176 | 0.23 | 01/15/2016 |

**Batch** 115618 **SampType:** MS Units **mg/Kg-dry**

SampID: 16010697-018AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.31 | | **45.4** | 46.30 | 7.407 | 82.1 | 75 | 125 | 01/15/2016 |
| Barium | 0.23 | | **240** | 185.2 | 85.22 | 83.8 | 75 | 125 | 01/15/2016 |
| Cadmium | 0.19 | | **4.23** | 4.630 | 0.2037 | 87.0 | 75 | 125 | 01/15/2016 |
| Chromium | 0.46 | | **51.9** | 18.52 | 33.19 | 101.2 | 75 | 125 | 01/15/2016 |
| Lead | 1.39 | | **57.1** | 46.30 | 17.60 | 85.3 | 75 | 125 | 01/15/2016 |
| Selenium | 3.70 | | **38.7** | 46.30 | 0 | 83.5 | 75 | 125 | 01/15/2016 |
| Silver | 0.46 | | **3.79** | 4.630 | 0 | 81.8 | 75 | 125 | 01/15/2016 |

**Batch** 115618 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**

SampID: 16010697-018AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.31 | | **47.5** | 46.30 | 7.407 | 86.7 | 45.44 | 4.54 | 01/15/2016 |
| Barium | 0.23 | | **241** | 185.2 | 85.22 | 84.4 | 240.5 | 0.42 | 01/15/2016 |
| Cadmium | 0.19 | | **4.32** | 4.630 | 0.2037 | 89.0 | 4.231 | 2.16 | 01/15/2016 |
| Chromium | 0.46 | S | **60.7** | 18.52 | 33.19 | 148.4 | 51.93 | 15.56 | 01/15/2016 |
| Lead | 1.39 | | **58.4** | 46.30 | 17.60 | 88.1 | 57.10 | 2.24 | 01/15/2016 |
| Selenium | 3.70 | | **39.1** | 46.30 | 0 | 84.4 | 38.67 | 1.07 | 01/15/2016 |
| Silver | 0.46 | | **3.83** | 4.630 | 0 | 82.8 | 3.787 | 1.22 | 01/15/2016 |

**Batch** 115661 **SampType:** MBLK Units **mg/Kg-dry**

SampID: MBLK-115661

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 01/18/2016 |
| Barium | 0.25 | J | **0.13** | 0.2500 | 0 | 52.0 | -100 | 100 | 01/18/2016 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 01/18/2016 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/18/2016 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 01/18/2016 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 01/18/2016 |
| Silver | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/18/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697
**Report Date:** 19-Jan-16

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115661 **SampType:** LCS Units **mg/Kg-dry**
SampID: LCS-115661

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **45.8** | 50.00 | 0 | 91.6 | 85 | 115 | 01/18/2016 |
| Barium | 0.25 | | **194** | 200.0 | 0 | 97.0 | 85 | 115 | 01/18/2016 |
| Cadmium | 0.20 | | **4.78** | 5.000 | 0 | 95.6 | 85 | 115 | 01/18/2016 |
| Chromium | 0.50 | | **20.2** | 20.00 | 0 | 101.0 | 85 | 115 | 01/18/2016 |
| Lead | 1.50 | | **50.8** | 50.00 | 0 | 101.5 | 85 | 115 | 01/18/2016 |
| Selenium | 4.00 | | **47.2** | 50.00 | 0 | 94.4 | 85 | 115 | 01/18/2016 |
| Silver | 0.50 | | **4.63** | 5.000 | 0 | 92.6 | 85 | 115 | 01/18/2016 |

**Batch** 115661 **SampType:** MS Units **mg/Kg-dry**
SampID: 16010786-002AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.40 | | **46.2** | 48.08 | 2.654 | 90.7 | 75 | 125 | 01/19/2016 |
| Barium | 0.24 | | **278** | 192.3 | 121.9 | 81.2 | 75 | 125 | 01/19/2016 |
| Cadmium | 0.19 | | **4.80** | 4.808 | 0.2308 | 95.0 | 75 | 125 | 01/19/2016 |
| Chromium | 0.48 | | **31.2** | 19.23 | 11.97 | 99.9 | 75 | 125 | 01/19/2016 |
| Lead | 1.44 | | **55.2** | 48.08 | 6.798 | 100.6 | 75 | 125 | 01/19/2016 |
| Silver | 0.48 | | **4.33** | 4.808 | 0 | 90.0 | 75 | 125 | 01/19/2016 |

**Batch** 115661 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**
SampID: 16010786-002AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.40 | | **47.5** | 48.08 | 2.654 | 93.3 | 46.24 | 2.69 | 01/19/2016 |
| Barium | 0.24 | | **291** | 192.3 | 121.9 | 88.2 | 278.1 | 4.69 | 01/19/2016 |
| Cadmium | 0.19 | | **4.75** | 4.808 | 0.2308 | 94.0 | 4.798 | 1.01 | 01/19/2016 |
| Chromium | 0.48 | | **31.4** | 19.23 | 11.97 | 100.9 | 31.18 | 0.61 | 01/19/2016 |
| Lead | 1.44 | | **54.6** | 48.08 | 6.798 | 99.4 | 55.17 | 1.03 | 01/19/2016 |
| Silver | 0.48 | | **4.31** | 4.808 | 0 | 89.6 | 4.327 | 0.45 | 01/19/2016 |

**Batch** 115661 **SampType:** MS Units **mg/Kg-dry**
SampID: 16010787-003AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.45 | | **49.3** | 49.02 | 4.912 | 90.5 | 75 | 125 | 01/19/2016 |
| Barium | 0.25 | | **265** | 196.1 | 81.15 | 93.9 | 75 | 125 | 01/19/2016 |
| Cadmium | 0.20 | | **4.77** | 4.902 | 0.1765 | 93.8 | 75 | 125 | 01/19/2016 |
| Chromium | 0.49 | | **40.3** | 19.61 | 19.87 | 104.0 | 75 | 125 | 01/19/2016 |
| Lead | 1.47 | | **58.6** | 49.02 | 10.85 | 97.3 | 75 | 125 | 01/19/2016 |
| Silver | 0.49 | | **4.38** | 4.902 | 0 | 89.4 | 75 | 125 | 01/19/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3050B, 6010B, METALS BY ICP

**Batch 115661** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **20**

SampID: 16010787-003AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.45 | | **49.6** | 49.02 | 4.912 | 91.2 | 49.27 | 0.65 | 01/19/2016 |
| Barium | 0.25 | | **273** | 196.1 | 81.15 | 98.0 | 265.3 | 2.99 | 01/19/2016 |
| Cadmium | 0.20 | | **4.91** | 4.902 | 0.1765 | 96.6 | 4.775 | 2.83 | 01/19/2016 |
| Chromium | 0.49 | | **39.8** | 19.61 | 19.87 | 101.6 | 40.27 | 1.18 | 01/19/2016 |
| Lead | 1.47 | | **61.5** | 49.02 | 10.85 | 103.3 | 58.57 | 4.88 | 01/19/2016 |
| Silver | 0.49 | | **4.42** | 4.902 | 0 | 90.2 | 4.382 | 0.89 | 01/19/2016 |

## SW-846 7471B

**Batch 115620** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115620

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **< 0.010** | 0.01000 | 0 | 0 | -100 | 100 | 01/15/2016 |

**Batch 115620** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115620

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.249** | 0.2500 | 0 | 99.5 | 85 | 115 | 01/15/2016 |

**Batch 115620** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010697-005AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.011 | | **0.318** | 0.2851 | 0.02573 | 102.5 | 75 | 125 | 01/15/2016 |

**Batch 115620** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**

SampID: 16010697-005AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.011 | | **0.304** | 0.2851 | 0.02573 | 97.6 | 0.3180 | 4.50 | 01/15/2016 |

**Batch 115620** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010697-015AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.339** | 0.2887 | 0.03125 | 106.7 | 75 | 125 | 01/15/2016 |

**Batch 115620** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**

SampID: 16010697-015AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.337** | 0.2887 | 0.03125 | 106.0 | 0.3395 | 0.68 | 01/15/2016 |

**Batch 115632** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115632

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **< 0.010** | 0.01000 | 0 | 0 | -100 | 100 | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 7471B

**Batch** 115632 **SampType:** LCS Units **mg/Kg**

SampID: LCS-115632

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.254** | 0.2500 | 0 | 101.5 | 85 | 115 | 01/15/2016 |

**Batch** 115632 **SampType:** MS Units **mg/Kg-dry**

SampID: 16010786-002AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.366** | 0.3070 | 0.01931 | 113.0 | 75 | 125 | 01/15/2016 |

**Batch** 115632 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **15**

SampID: 16010786-002AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.363** | 0.3070 | 0.01931 | 112.0 | 0.3662 | 0.84 | 01/15/2016 |

**Batch** 115632 **SampType:** MS Units **mg/Kg**

SampID: 16010787-004AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.273** | 0.2500 | 0.01500 | 103.4 | 75 | 125 | 01/15/2016 |

**Batch** 115632 **SampType:** MSD Units **mg/Kg** RPD Limit **15**

SampID: 16010787-004AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.285** | 0.2500 | 0.01500 | 108.2 | 0.2734 | 4.31 | 01/15/2016 |

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115592 **SampType:** MBLK Units **mg/Kg**

SampID: MBLK-115592

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Anthracene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Benzo(a)anthracene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Benzo(a)pyrene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Chrysene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Fluoranthene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Fluorene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Pyrene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| TPH-DRO (C10 - C21) | 12.0 | J | **6.4** | | | | | | 01/14/2016 |
| TPH-ORO (C21 - C35) | 12.0 | | **ND** | | | | | | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.593** | 0.8350 | | 71.0 | 42.6 | 97.2 | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.542** | 0.8350 | | 64.9 | 16.7 | 118 | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.660** | 0.8350 | | 79.1 | 50.1 | 111 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115592** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115592

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **1.20** | 1.670 | 0 | 71.7 | 56.4 | 104 | 01/14/2016 |
| Anthracene | 0.0340 | | **1.12** | 1.670 | 0 | 66.9 | 55.9 | 101 | 01/14/2016 |
| Benzo(a)anthracene | 0.0340 | | **1.16** | 1.670 | 0 | 69.6 | 51.7 | 107 | 01/14/2016 |
| Benzo(a)pyrene | 0.0340 | | **1.22** | 1.670 | 0 | 73.2 | 57.2 | 114 | 01/14/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **1.20** | 1.670 | 0 | 71.8 | 45.3 | 116 | 01/14/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **1.25** | 1.670 | 0 | 75.1 | 58.2 | 114 | 01/14/2016 |
| Chrysene | 0.0340 | | **1.22** | 1.670 | 0 | 72.9 | 58.9 | 102 | 01/14/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **1.30** | 1.670 | 0 | 77.9 | 48.9 | 123 | 01/14/2016 |
| Fluoranthene | 0.0340 | | **1.21** | 1.670 | 0 | 72.6 | 54.9 | 108 | 01/14/2016 |
| Fluorene | 0.0340 | | **1.15** | 1.670 | 0 | 69.0 | 58 | 101 | 01/14/2016 |
| Pyrene | 0.0340 | | **1.24** | 1.670 | 0 | 74.2 | 53.4 | 107 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.548** | 0.8350 | | 65.7 | 42.6 | 97.2 | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.744** | 0.8350 | | 89.2 | 16.7 | 118 | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.631** | 0.8350 | | 75.6 | 50.1 | 111 | 01/14/2016 |

**Batch 115592** **SampType: LCSG** Units **mg/Kg**

SampID: LCSDRO-115592

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 12.0 | | **28.4** | 33.40 | 0 | 85.0 | 53.7 | 103 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.591** | 0.8350 | | 70.8 | 42.6 | 97.2 | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.547** | 0.8350 | | 65.5 | 16.7 | 118 | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.677** | 0.8350 | | 81.1 | 50.1 | 111 | 01/14/2016 |

**Batch 115592** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010608-025AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 15.0 | | **33.4** | 41.64 | 8.425 | 59.9 | 34.5 | 160 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.386** | 1.041 | | 37.0 | 12 | 133 | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.579** | 1.041 | | 55.7 | 30.9 | 115 | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.837** | 1.041 | | 80.4 | 31.5 | 137 | 01/14/2016 |

**Batch 115592** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **30**

SampID: 16010608-025AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 14.9 | | **35.4** | 41.55 | 8.425 | 65.0 | 33.36 | 6.03 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.591** | 1.039 | | 56.9 | | | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.644** | 1.039 | | 62.0 | | | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.886** | 1.039 | | 85.2 | | | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115616 **SampType:** MBLK Units **mg/Kg**

SampID: MBLK-115616

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Anthracene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Benzo(a)anthracene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Benzo(a)pyrene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Chrysene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Fluoranthene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Fluorene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Pyrene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| TPH-DRO (C10 - C21) | 12.0 | J | **6.5** | | | | | | 01/15/2016 |
| TPH-ORO (C21 - C35) | 12.0 | | **ND** | | | | | | 01/15/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.715** | 0.8350 | | 85.6 | 42.6 | 97.2 | 01/15/2016 |
| Surr: Nitrobenzene-d5 | | | **0.648** | 0.8350 | | 77.6 | 16.7 | 118 | 01/15/2016 |
| Surr: p-Terphenyl-d14 | | | **0.853** | 0.8350 | | 102.2 | 50.1 | 111 | 01/15/2016 |

**Batch** 115616 **SampType:** LCS Units **mg/Kg**

SampID: LCS-115616

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **1.52** | 1.670 | 0 | 90.9 | 56.4 | 104 | 01/15/2016 |
| Anthracene | 0.0340 | | **1.42** | 1.670 | 0 | 85.1 | 55.9 | 101 | 01/15/2016 |
| Benzo(a)anthracene | 0.0340 | | **1.47** | 1.670 | 0 | 88.0 | 51.7 | 107 | 01/15/2016 |
| Benzo(a)pyrene | 0.0340 | | **1.56** | 1.670 | 0 | 93.2 | 57.2 | 114 | 01/15/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **1.54** | 1.670 | 0 | 92.4 | 45.3 | 116 | 01/15/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **1.56** | 1.670 | 0 | 93.1 | 58.2 | 114 | 01/15/2016 |
| Chrysene | 0.0340 | | **1.46** | 1.670 | 0 | 87.3 | 58.9 | 102 | 01/15/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **1.68** | 1.670 | 0 | 100.7 | 48.9 | 123 | 01/15/2016 |
| Fluoranthene | 0.0340 | | **1.57** | 1.670 | 0 | 93.9 | 54.9 | 108 | 01/15/2016 |
| Fluorene | 0.0340 | | **1.45** | 1.670 | 0 | 86.7 | 58 | 101 | 01/15/2016 |
| Pyrene | 0.0340 | | **1.59** | 1.670 | 0 | 95.2 | 53.4 | 107 | 01/15/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.667** | 0.8350 | | 79.9 | 42.6 | 97.2 | 01/15/2016 |
| Surr: Nitrobenzene-d5 | | | **0.889** | 0.8350 | | 106.5 | 16.7 | 118 | 01/15/2016 |
| Surr: p-Terphenyl-d14 | | | **0.775** | 0.8350 | | 92.9 | 50.1 | 111 | 01/15/2016 |

**Batch** 115616 **SampType:** LCSG Units **mg/Kg**

SampID: LCSDRO-115616

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 12.0 | | **29.9** | 33.40 | 0 | 89.6 | 53.7 | 103 | 01/15/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.614** | 0.8350 | | 73.6 | 42.6 | 97.2 | 01/15/2016 |
| Surr: Nitrobenzene-d5 | | | **0.570** | 0.8350 | | 68.2 | 16.7 | 118 | 01/15/2016 |
| Surr: p-Terphenyl-d14 | | | **0.800** | 0.8350 | | 95.8 | 50.1 | 111 | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115616** **SampType:** **MS** Units **mg/Kg-dry**

SampID: 16010697-028AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 15.4 | | **35.7** | 42.83 | 0 | 83.5 | 34.5 | 160 | 01/15/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.489** | 1.071 | | 45.7 | 12 | 133 | 01/15/2016 |
| Surr: Nitrobenzene-d5 | | | **0.581** | 1.071 | | 54.3 | 30.9 | 115 | 01/15/2016 |
| Surr: p-Terphenyl-d14 | | | **0.937** | 1.071 | | 87.5 | 31.5 | 137 | 01/15/2016 |

**Batch** **115616** **SampType:** **MSD** Units **mg/Kg-dry** RPD Limit **30**

SampID: 16010697-028AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 15.2 | | **37.9** | 42.42 | 0 | 89.4 | 35.74 | 5.88 | 01/15/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.438** | 1.060 | | 41.3 | | | 01/15/2016 |
| Surr: Nitrobenzene-d5 | | | **0.567** | 1.060 | | 53.5 | | | 01/15/2016 |
| Surr: p-Terphenyl-d14 | | | **0.954** | 1.060 | | 90.0 | | | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115642** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Butanone | 25.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Hexanone | 25.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **ND** | | | | | | 01/14/2016 |
| Acetone | 25.0 | | **ND** | | | | | | 01/14/2016 |
| Acetonitrile | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/14/2016 |
| Acrylonitrile | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Benzene | 2.0 | | **ND** | | | | | | 01/14/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/14/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697
**Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115642** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Chloromethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Chloroprene | 20.0 | | **ND** | | | | | | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Cyclohexanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Diisopropyl ether | 2.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl acetate | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **ND** | | | | | | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Hexachloroethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Iodomethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Methacrylonitrile | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/14/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/14/2016 |
| n-Butyl acetate | 25.0 | | **ND** | | | | | | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/14/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/14/2016 |
| Nitrobenzene | 50.0 | | **ND** | | | | | | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Pentachloroethane | 20.0 | | **ND** | | | | | | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| tert-Amyl methyl ether | 2.0 | | **ND** | | | | | | 01/14/2016 |
| tert-Butyl alcohol | 25.0 | | **ND** | | | | | | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Tetrahydrofuran | 20.0 | | **ND** | | | | | | 01/14/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115642** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Vinyl acetate | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/14/2016 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 01/14/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.4** | 50.00 | | 98.8 | 74.7 | 129 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.4 | 86 | 119 | 01/14/2016 |
| Surr: Toluene-d8 | | | **49.2** | 50.00 | | 98.4 | 84.3 | 114 | 01/14/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697
**Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115642** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **55.3** | 50.00 | 0 | 110.5 | 52.42 | 5.29 | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **53.4** | 50.00 | 0 | 106.7 | 49.64 | 7.22 | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 45.84 | 9.02 | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **52.8** | 50.00 | 0 | 105.6 | 48.95 | 7.53 | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 45.43 | 7.62 | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **103** | 125.0 | 0 | 82.3 | 97.96 | 4.87 | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 47.93 | 7.03 | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **51.3** | 50.00 | 0 | 102.7 | 47.46 | 7.83 | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 49.32 | 7.96 | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 46.24 | 12.58 | 01/14/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **46.9** | 50.00 | 0 | 93.9 | 43.81 | 6.88 | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 48.93 | 6.39 | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 46.84 | 8.27 | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 50.27 | 6.91 | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **45.3** | 50.00 | 0 | 90.7 | 41.74 | 8.25 | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 46.53 | 6.87 | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 50.54 | 7.37 | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 47.84 | 7.12 | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 49.15 | 8.34 | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 50.22 | 8.32 | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.5 | 49.52 | 8.15 | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **47.5** | 50.00 | 0 | 95.1 | 44.94 | 5.62 | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.7 | 48.97 | 7.58 | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 48.62 | 6.51 | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 50.40 | 7.17 | 01/14/2016 |
| 2-Butanone | 25.0 | | **123** | 125.0 | 0 | 98.1 | 117.4 | 4.34 | 01/14/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **51.0** | 50.00 | 0 | 102.0 | 50.59 | 0.77 | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 48.22 | 8.10 | 01/14/2016 |
| 2-Hexanone | 25.0 | | **115** | 125.0 | 0 | 91.8 | 108.2 | 5.96 | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **576** | 500.0 | 0 | 115.2 | 539.0 | 6.61 | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 49.11 | 6.04 | 01/14/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **116** | 125.0 | 0 | 92.7 | 106.7 | 8.29 | 01/14/2016 |
| Acetone | 25.0 | | **125** | 125.0 | 0 | 99.6 | 130.1 | 4.36 | 01/14/2016 |
| Acetonitrile | 50.0 | | **450** | 500.0 | 0 | 89.9 | 421.7 | 6.41 | 01/14/2016 |
| Acrolein | 100 | | **433** | 500.0 | 0 | 86.6 | 444.6 | 2.70 | 01/14/2016 |
| Acrylonitrile | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 46.42 | 4.96 | 01/14/2016 |
| Allyl chloride | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 50.10 | 7.94 | 01/14/2016 |
| Benzene | 2.0 | | **53.0** | 50.00 | 0 | 106.0 | 48.91 | 8.06 | 01/14/2016 |
| Bromobenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 46.58 | 7.58 | 01/14/2016 |
| Bromochloromethane | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 48.27 | 6.47 | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 51.58 | 7.36 | 01/14/2016 |
| Bromoform | 5.0 | | **55.9** | 50.00 | 0 | 111.9 | 52.97 | 5.45 | 01/14/2016 |
| Bromomethane | 10.0 | | **52.8** | 50.00 | 0 | 105.6 | 48.79 | 7.91 | 01/14/2016 |
| Carbon disulfide | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 47.07 | 7.96 | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **56.0** | 50.00 | 0 | 112.0 | 51.85 | 7.71 | 01/14/2016 |
| Chlorobenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 49.47 | 5.27 | 01/14/2016 |
| Chloroethane | 10.0 | | **47.8** | 50.00 | 0 | 95.7 | 43.84 | 8.71 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115642** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 48.15 | 6.61 | 01/14/2016 |
| Chloromethane | 10.0 | | **45.9** | 50.00 | 0 | 91.8 | 40.23 | 13.17 | 01/14/2016 |
| Chloroprene | 20.0 | | **49.1** | 50.00 | 0 | 98.3 | 46.07 | 6.45 | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 48.34 | 7.39 | 01/14/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **57.2** | 50.00 | 0 | 114.3 | 53.77 | 6.09 | 01/14/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **49.0** | 50.00 | 0 | 97.9 | 47.34 | 3.34 | 01/14/2016 |
| Cyclohexanone | 50.0 | | **618** | 500.0 | 0 | 123.6 | 598.5 | 3.20 | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 48.96 | 8.47 | 01/14/2016 |
| Dibromomethane | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 49.96 | 8.88 | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **50.6** | 50.00 | 0 | 101.2 | 44.76 | 12.27 | 01/14/2016 |
| Diisopropyl ether | 2.0 | | **55.2** | 50.00 | 0 | 110.3 | 49.70 | 10.40 | 01/14/2016 |
| Ethyl acetate | 10.0 | | **49.1** | 50.00 | 0 | 98.1 | 45.84 | 6.79 | 01/14/2016 |
| Ethyl ether | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 45.42 | 7.22 | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **50.8** | 50.00 | 0 | 101.6 | 47.42 | 6.84 | 01/14/2016 |
| Ethylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 48.68 | 6.94 | 01/14/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **53.3** | 50.00 | 0 | 106.6 | 48.10 | 10.28 | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 46.90 | 11.55 | 01/14/2016 |
| Hexachloroethane | 10.0 | | **53.3** | 50.00 | 0 | 106.7 | 47.81 | 10.92 | 01/14/2016 |
| Iodomethane | 5.0 | | **61.4** | 50.00 | 0 | 122.7 | 57.08 | 7.21 | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 51.62 | 6.90 | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **106** | 100.0 | 0 | 106.0 | 98.84 | 6.94 | 01/14/2016 |
| Methacrylonitrile | 10.0 | | **50.9** | 50.00 | 0 | 101.8 | 48.32 | 5.22 | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 51.15 | 8.71 | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **54.0** | 50.00 | 0 | 107.9 | 48.63 | 10.37 | 01/14/2016 |
| Methylacrylate | 10.0 | | **54.4** | 50.00 | 0 | 108.8 | 50.18 | 8.11 | 01/14/2016 |
| Methylene chloride | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 47.40 | 6.81 | 01/14/2016 |
| Naphthalene | 10.0 | | **54.4** | 50.00 | 0 | 108.8 | 48.56 | 11.34 | 01/14/2016 |
| n-Butyl acetate | 25.0 | | **47.4** | 50.00 | 0 | 94.9 | 43.98 | 7.57 | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 49.91 | 8.08 | 01/14/2016 |
| n-Heptane | 20.0 | | **55.0** | 50.00 | 0 | 110.0 | 51.58 | 6.40 | 01/14/2016 |
| n-Hexane | 20.0 | | **54.8** | 50.00 | 0 | 109.5 | 50.91 | 7.27 | 01/14/2016 |
| Nitrobenzene | 50.0 | | **370** | 500.0 | 0 | 73.9 | 336.0 | 9.52 | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 48.52 | 6.62 | 01/14/2016 |
| o-Xylene | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 49.54 | 6.65 | 01/14/2016 |
| Pentachloroethane | 20.0 | | **55.6** | 50.00 | 0 | 111.1 | 51.33 | 7.91 | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **56.3** | 50.00 | 0 | 112.6 | 51.76 | 8.40 | 01/14/2016 |
| Propionitrile | 50.0 | | **480** | 500.0 | 0 | 96.0 | 443.7 | 7.85 | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 50.39 | 8.57 | 01/14/2016 |
| Styrene | 5.0 | | **56.3** | 50.00 | 0 | 112.6 | 52.64 | 6.68 | 01/14/2016 |
| tert-Amyl methyl ether | 2.0 | | **55.9** | 50.00 | 0 | 111.7 | 49.69 | 11.69 | 01/14/2016 |
| tert-Butyl alcohol | 25.0 | | **199** | 250.0 | 0 | 79.7 | 181.8 | 9.10 | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 47.22 | 7.62 | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 45.83 | 9.30 | 01/14/2016 |
| Tetrahydrofuran | 20.0 | | **48.7** | 50.00 | 0 | 97.4 | 45.85 | 5.99 | 01/14/2016 |
| Toluene | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 47.07 | 6.57 | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **52.0** | 50.00 | 0 | 103.9 | 48.20 | 7.53 | 01/14/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 48.94 | 5.62 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115642** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **50.7** | 50.00 | 0 | 101.4 | 48.11 | 5.26 | 01/14/2016 |
| Trichloroethene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 48.65 | 8.12 | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **55.0** | 50.00 | 0 | 110.1 | 49.10 | 11.41 | 01/14/2016 |
| Vinyl acetate | 10.0 | | **57.2** | 50.00 | 0 | 114.5 | 51.28 | 10.97 | 01/14/2016 |
| Vinyl chloride | 2.0 | | **52.6** | 50.00 | 0 | 105.3 | 47.79 | 9.66 | 01/14/2016 |
| Xylenes, Total | 5.0 | | **159** | 150.0 | 0 | 105.9 | 148.4 | 6.85 | 01/14/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **104** | 100.0 | 0 | 104.0 | 96.54 | 7.46 | 01/14/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **109** | 100.0 | 0 | 108.9 | 102.7 | 5.87 | 01/14/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **99.7** | 100.0 | 0 | 99.7 | 95.45 | 4.32 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.7** | 50.00 | | 99.4 | | | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.4** | 50.00 | | 98.7 | | | 01/14/2016 |
| Surr: Toluene-d8 | | | **46.7** | 50.00 | | 93.3 | | | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115642** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 81.9 | 115 | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 79.4 | 124 | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **45.8** | 50.00 | 0 | 91.7 | 74.7 | 116 | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **49.0** | 50.00 | 0 | 97.9 | 72.9 | 121 | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **45.4** | 50.00 | 0 | 90.9 | 80.8 | 111 | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **98.0** | 125.0 | 0 | 78.4 | 66.3 | 130 | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **47.9** | 50.00 | 0 | 95.9 | 79.4 | 114 | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **47.5** | 50.00 | 0 | 94.9 | 74.1 | 117 | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 81.7 | 116 | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **46.2** | 50.00 | 0 | 92.5 | 79.7 | 118 | 01/14/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **43.8** | 50.00 | 0 | 87.6 | 77.3 | 112 | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.9** | 50.00 | 0 | 97.9 | 79.9 | 119 | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **46.8** | 50.00 | 0 | 93.7 | 79.3 | 118 | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 78.7 | 115 | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **41.7** | 50.00 | 0 | 83.5 | 76 | 122 | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **46.5** | 50.00 | 0 | 93.1 | 80.8 | 114 | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.1 | 78.3 | 112 | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **47.8** | 50.00 | 0 | 95.7 | 70.6 | 118 | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **49.2** | 50.00 | 0 | 98.3 | 79.6 | 113 | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 77.5 | 115 | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 78.6 | 117 | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **44.9** | 50.00 | 0 | 89.9 | 78.8 | 112 | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **49.0** | 50.00 | 0 | 97.9 | 77.8 | 114 | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **48.6** | 50.00 | 0 | 97.2 | 78.6 | 115 | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 74.9 | 130 | 01/14/2016 |
| 2-Butanone | 25.0 | | **117** | 125.0 | 0 | 93.9 | 70.7 | 136 | 01/14/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **50.6** | 50.00 | 0 | 101.2 | 52.5 | 145 | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 77.4 | 114 | 01/14/2016 |
| 2-Hexanone | 25.0 | | **108** | 125.0 | 0 | 86.5 | 73.3 | 125 | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **539** | 500.0 | 0 | 107.8 | 67.3 | 139 | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 78.3 | 115 | 01/14/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **107** | 125.0 | 0 | 85.3 | 76.3 | 122 | 01/14/2016 |
| Acetone | 25.0 | | **130** | 125.0 | 0 | 104.1 | 56.4 | 147 | 01/14/2016 |
| Acetonitrile | 50.0 | | **422** | 500.0 | 0 | 84.3 | 59.3 | 129 | 01/14/2016 |
| Acrolein | 100 | | **445** | 500.0 | 0 | 88.9 | 1 | 201 | 01/14/2016 |
| Acrylonitrile | 5.0 | | **46.4** | 50.00 | 0 | 92.8 | 74.1 | 128 | 01/14/2016 |
| Allyl chloride | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 71.5 | 123 | 01/14/2016 |
| Benzene | 2.0 | | **48.9** | 50.00 | 0 | 97.8 | 80 | 114 | 01/14/2016 |
| Bromobenzene | 5.0 | | **46.6** | 50.00 | 0 | 93.2 | 73.2 | 118 | 01/14/2016 |
| Bromochloromethane | 5.0 | | **48.3** | 50.00 | 0 | 96.5 | 73.3 | 121 | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 81.6 | 121 | 01/14/2016 |
| Bromoform | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 83.1 | 127 | 01/14/2016 |
| Bromomethane | 10.0 | | **48.8** | 50.00 | 0 | 97.6 | 44.4 | 154 | 01/14/2016 |
| Carbon disulfide | 5.0 | | **47.1** | 50.00 | 0 | 94.1 | 73.2 | 118 | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 79.4 | 130 | 01/14/2016 |
| Chlorobenzene | 5.0 | | **49.5** | 50.00 | 0 | 98.9 | 81.4 | 110 | 01/14/2016 |
| Chloroethane | 10.0 | | **43.8** | 50.00 | 0 | 87.7 | 52.1 | 137 | 01/14/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16010697

**Client Project:** NGA 2015-0461.21

**Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115642** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **48.2** | 50.00 | 0 | 96.3 | 82.7 | 116 | 01/14/2016 |
| Chloromethane | 10.0 | | **40.2** | 50.00 | 0 | 80.5 | 48.2 | 144 | 01/14/2016 |
| Chloroprene | 20.0 | | **46.1** | 50.00 | 0 | 92.1 | 80.6 | 126 | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **48.3** | 50.00 | 0 | 96.7 | 78.2 | 116 | 01/14/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 83 | 119 | 01/14/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **47.3** | 50.00 | 0 | 94.7 | 60.7 | 137 | 01/14/2016 |
| Cyclohexanone | 50.0 | | **598** | 500.0 | 0 | 119.7 | 54.2 | 145 | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **49.0** | 50.00 | 0 | 97.9 | 81.2 | 121 | 01/14/2016 |
| Dibromomethane | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 78.3 | 118 | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **44.8** | 50.00 | 0 | 89.5 | 20.6 | 154 | 01/14/2016 |
| Diisopropyl ether | 2.0 | | **49.7** | 50.00 | 0 | 99.4 | 73.1 | 116 | 01/14/2016 |
| Ethyl acetate | 10.0 | | **45.8** | 50.00 | 0 | 91.7 | 73.1 | 116 | 01/14/2016 |
| Ethyl ether | 5.0 | | **45.4** | 50.00 | 0 | 90.8 | 75.2 | 109 | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 80.1 | 113 | 01/14/2016 |
| Ethylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 77.2 | 113 | 01/14/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **48.1** | 50.00 | 0 | 96.2 | 75 | 118 | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **46.9** | 50.00 | 0 | 93.8 | 77.3 | 123 | 01/14/2016 |
| Hexachloroethane | 10.0 | | **47.8** | 50.00 | 0 | 95.6 | 74.6 | 117 | 01/14/2016 |
| Iodomethane | 5.0 | | **57.1** | 50.00 | 0 | 114.2 | 61.3 | 140 | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 81.3 | 114 | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **98.8** | 100.0 | 0 | 98.8 | 79.6 | 113 | 01/14/2016 |
| Methacrylonitrile | 10.0 | | **48.3** | 50.00 | 0 | 96.6 | 77.2 | 125 | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 74.2 | 121 | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **48.6** | 50.00 | 0 | 97.3 | 76.8 | 117 | 01/14/2016 |
| Methylacrylate | 10.0 | | **50.2** | 50.00 | 0 | 100.4 | 78 | 124 | 01/14/2016 |
| Methylene chloride | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 74.1 | 114 | 01/14/2016 |
| Naphthalene | 10.0 | | **48.6** | 50.00 | 0 | 97.1 | 77.9 | 122 | 01/14/2016 |
| n-Butyl acetate | 25.0 | | **44.0** | 50.00 | 0 | 88.0 | 74 | 120 | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 71.1 | 120 | 01/14/2016 |
| n-Heptane | 20.0 | | **51.6** | 50.00 | 0 | 103.2 | 67.4 | 129 | 01/14/2016 |
| n-Hexane | 20.0 | | **50.9** | 50.00 | 0 | 101.8 | 68.4 | 126 | 01/14/2016 |
| Nitrobenzene | 50.0 | | **336** | 500.0 | 0 | 67.2 | 37.9 | 181 | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 74.6 | 118 | 01/14/2016 |
| o-Xylene | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 80.1 | 111 | 01/14/2016 |
| Pentachloroethane | 20.0 | | **51.3** | 50.00 | 0 | 102.7 | 78.8 | 117 | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 77.6 | 118 | 01/14/2016 |
| Propionitrile | 50.0 | | **444** | 500.0 | 0 | 88.7 | 72.9 | 137 | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 74.5 | 119 | 01/14/2016 |
| Styrene | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 83.4 | 113 | 01/14/2016 |
| tert-Amyl methyl ether | 2.0 | | **49.7** | 50.00 | 0 | 99.4 | 78.7 | 117 | 01/14/2016 |
| tert-Butyl alcohol | 25.0 | | **182** | 250.0 | 0 | 72.7 | 58.1 | 139 | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **47.2** | 50.00 | 0 | 94.4 | 75.9 | 114 | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **45.8** | 50.00 | 0 | 91.7 | 72.5 | 125 | 01/14/2016 |
| Tetrahydrofuran | 20.0 | | **45.8** | 50.00 | 0 | 91.7 | 69.6 | 125 | 01/14/2016 |
| Toluene | 5.0 | | **47.1** | 50.00 | 0 | 94.1 | 77.5 | 113 | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 79 | 114 | 01/14/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **48.9** | 50.00 | 0 | 97.9 | 78 | 115 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115642 **SampType:** LCS Units **µg/L**

SampID: LCS-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **48.1** | 50.00 | 0 | 96.2 | 63.3 | 128 | 01/14/2016 |
| Trichloroethene | 5.0 | | **48.6** | 50.00 | 0 | 97.3 | 84.4 | 114 | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 75.2 | 132 | 01/14/2016 |
| Vinyl acetate | 10.0 | | **51.3** | 50.00 | 0 | 102.6 | 64.5 | 127 | 01/14/2016 |
| Vinyl chloride | 2.0 | | **47.8** | 50.00 | 0 | 95.6 | 58 | 134 | 01/14/2016 |
| Xylenes, Total | 5.0 | | **148** | 150.0 | 0 | 98.9 | 80.1 | 111 | 01/14/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **96.5** | 100.0 | 0 | 96.5 | 78.2 | 116 | 01/14/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **103** | 100.0 | 0 | 102.7 | 78 | 119 | 01/14/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **95.4** | 100.0 | 0 | 95.4 | 60.7 | 137 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.2** | 50.00 | | 98.5 | 74.7 | 129 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **48.8** | 50.00 | | 97.6 | 86 | 119 | 01/14/2016 |
| Surr: Toluene-d8 | | | **46.7** | 50.00 | | 93.3 | 84.1 | 114 | 01/14/2016 |

**Batch** 115642 **SampType:** LCSGD Units **µg/L** RPD Limit **20**

SampID: LCSGD-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2010** | 2000 | 0 | 100.6 | 2101 | 4.34 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.0** | 50.00 | | 96.0 | | | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.1** | 50.00 | | 98.1 | | | 01/14/2016 |
| Surr: Toluene-d8 | | | **48.6** | 50.00 | | 97.3 | | | 01/14/2016 |

**Batch** 115642 **SampType:** LCSG Units **µg/L**

SampID: LCSG-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2100** | 2000 | 0 | 105.1 | 70 | 130 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.1** | 50.00 | | 96.2 | 74.7 | 129 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.4** | 50.00 | | 98.8 | 86 | 119 | 01/14/2016 |
| Surr: Toluene-d8 | | | **49.3** | 50.00 | | 98.7 | 84.3 | 114 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115623** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Acetone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Acetonitrile | 100 | | **ND** | | | | | | 01/14/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/14/2016 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Benzene | 1.0 | | **ND** | | | | | | 01/14/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Chloroform | 5.0 | | **ND** | | | | | | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115623** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/14/2016 |
| Cyclohexanone | 100 | | **ND** | | | | | | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Iodomethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/14/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Methylene chloride | 5.0 | J | **1.4** | | | | | | 01/14/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/14/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/14/2016 |
| Nitrobenzene | 100 | | **ND** | | | | | | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 01/14/2016 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/14/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115623** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/14/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.4** | 50.00 | | 94.8 | 72.2 | 131 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.8** | 50.00 | | 101.6 | 82.1 | 116 | 01/14/2016 |
| Surr: Toluene-d8 | | | **50.0** | 50.00 | | 100.0 | 86 | 116 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115623** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 47.53 | 5.01 | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **54.8** | 50.00 | 0 | 109.5 | 51.93 | 5.29 | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **47.0** | 50.00 | 0 | 94.0 | 44.53 | 5.38 | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **56.1** | 50.00 | 0 | 112.3 | 53.34 | 5.12 | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 47.85 | 7.19 | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **132** | 125.0 | 0 | 106.0 | 115.5 | 13.74 | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **54.4** | 50.00 | 0 | 108.9 | 51.37 | 5.80 | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 51.10 | 5.28 | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 53.13 | 4.90 | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 48.87 | 10.49 | 01/14/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **46.3** | 50.00 | 0 | 92.6 | 43.57 | 6.12 | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.5 | 47.57 | 4.46 | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **56.0** | 50.00 | 0 | 112.0 | 50.18 | 10.94 | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 49.91 | 3.64 | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 44.66 | 13.41 | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 46.53 | 5.23 | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 48.19 | 3.51 | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **53.7** | 50.00 | 0 | 107.3 | 49.96 | 7.16 | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **54.5** | 50.00 | 0 | 108.9 | 51.43 | 5.72 | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 49.71 | 2.91 | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **51.9** | 50.00 | 0 | 103.9 | 50.41 | 2.97 | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 47.12 | 9.44 | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 50.57 | 1.86 | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 50.45 | 6.07 | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **55.2** | 50.00 | 0 | 110.5 | 52.80 | 4.52 | 01/14/2016 |
| 2-Butanone | 50.0 | | **144** | 125.0 | 0 | 114.8 | 130.8 | 9.32 | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **50.1** | 50.00 | 0 | 100.1 | 48.77 | 2.61 | 01/14/2016 |
| 2-Hexanone | 50.0 | | **131** | 125.0 | 0 | 105.1 | 122.5 | 7.00 | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **527** | 500.0 | 0 | 105.3 | 487.6 | 7.71 | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 49.72 | 1.58 | 01/14/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **123** | 125.0 | 0 | 98.6 | 115.6 | 6.43 | 01/14/2016 |
| Acetone | 50.0 | | **154** | 125.0 | 0 | 122.9 | 141.4 | 8.27 | 01/14/2016 |
| Acetonitrile | 100 | | **575** | 500.0 | 0 | 115.0 | 551.6 | 4.17 | 01/14/2016 |
| Acrolein | 100 | | **580** | 500.0 | 0 | 116.0 | 536.6 | 7.81 | 01/14/2016 |
| Acrylonitrile | 10.0 | | **55.4** | 50.00 | 0 | 110.8 | 49.75 | 10.71 | 01/14/2016 |
| Allyl chloride | 5.0 | | **55.7** | 50.00 | 0 | 111.4 | 50.45 | 9.87 | 01/14/2016 |
| Benzene | 1.0 | | **54.9** | 50.00 | 0 | 109.8 | 52.01 | 5.42 | 01/14/2016 |
| Bromobenzene | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 47.31 | 0.99 | 01/14/2016 |
| Bromochloromethane | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 49.19 | 7.38 | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **55.1** | 50.00 | 0 | 110.2 | 51.15 | 7.45 | 01/14/2016 |
| Bromoform | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 48.25 | 8.25 | 01/14/2016 |
| Bromomethane | 10.0 | | **59.4** | 50.00 | 0 | 118.8 | 41.78 | 34.86 | 01/14/2016 |
| Carbon disulfide | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 51.31 | 6.80 | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 51.36 | 4.31 | 01/14/2016 |
| Chlorobenzene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 49.10 | 5.93 | 01/14/2016 |
| Chloroethane | 10.0 | | **55.2** | 50.00 | 0 | 110.4 | 50.10 | 9.69 | 01/14/2016 |
| Chloroform | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 51.10 | 5.96 | 01/14/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115623** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **53.2** | 50.00 | 0 | 106.3 | 46.24 | 13.94 | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 49.88 | 6.54 | 01/14/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **56.6** | 50.00 | 0 | 113.3 | 53.24 | 6.19 | 01/14/2016 |
| Cyclohexanone | 100 | | **529** | 500.0 | 0 | 105.8 | 484.9 | 8.70 | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 48.05 | 6.74 | 01/14/2016 |
| Dibromomethane | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 49.94 | 6.68 | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **68.8** | 50.00 | 0 | 137.7 | 63.09 | 8.73 | 01/14/2016 |
| Diisopropyl ether | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 50.62 | 6.22 | 01/14/2016 |
| Ethyl ether | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 47.84 | 4.38 | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 48.41 | 6.19 | 01/14/2016 |
| Ethylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 49.12 | 4.85 | 01/14/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 49.73 | 7.29 | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **55.7** | 50.00 | 0 | 111.4 | 51.62 | 7.57 | 01/14/2016 |
| Hexachloroethane | 5.0 | | **52.5** | 50.00 | 0 | 105.1 | 50.75 | 3.47 | 01/14/2016 |
| Iodomethane | 10.0 | R | **52.3** | 50.00 | 0 | 104.7 | 34.74 | 40.40 | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 50.12 | 7.64 | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **104** | 100.0 | 0 | 104.3 | 100.1 | 4.05 | 01/14/2016 |
| Methacrylonitrile | 50.0 | | **53.3** | 50.00 | 0 | 106.7 | 49.02 | 8.42 | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 48.08 | 11.34 | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **54.8** | 50.00 | 0 | 109.5 | 50.93 | 7.23 | 01/14/2016 |
| Methylacrylate | 10.0 | | **53.2** | 50.00 | 0 | 106.4 | 50.51 | 5.21 | 01/14/2016 |
| Methylene chloride | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 49.61 | 8.31 | 01/14/2016 |
| Naphthalene | 10.0 | | **52.0** | 50.00 | 0 | 104.0 | 45.39 | 13.57 | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **55.5** | 50.00 | 0 | 111.1 | 53.07 | 4.55 | 01/14/2016 |
| n-Heptane | 20.0 | | **57.4** | 50.00 | 0 | 114.8 | 54.10 | 5.94 | 01/14/2016 |
| n-Hexane | 20.0 | | **58.9** | 50.00 | 0 | 117.8 | 54.85 | 7.12 | 01/14/2016 |
| Nitrobenzene | 100 | | **475** | 500.0 | 0 | 94.9 | 436.4 | 8.41 | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 49.77 | 1.65 | 01/14/2016 |
| o-Xylene | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 49.62 | 6.19 | 01/14/2016 |
| Pentachloroethane | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 50.62 | 5.77 | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 50.53 | 2.39 | 01/14/2016 |
| Propionitrile | 50.0 | | **558** | 500.0 | 0 | 111.6 | 509.0 | 9.15 | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 50.02 | 3.23 | 01/14/2016 |
| Styrene | 5.0 | | **51.3** | 50.00 | 0 | 102.7 | 48.32 | 6.06 | 01/14/2016 |
| tert-Amyl methyl ether | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 50.07 | 6.62 | 01/14/2016 |
| tert-Butyl alcohol | 50.0 | | **262** | 250.0 | 0 | 104.8 | 237.5 | 9.84 | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **48.9** | 50.00 | 0 | 97.7 | 47.54 | 2.76 | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 46.77 | 11.41 | 01/14/2016 |
| Tetrahydrofuran | 50.0 | | **50.8** | 50.00 | 0 | 101.6 | 45.68 | 10.57 | 01/14/2016 |
| Toluene | 5.0 | | **52.8** | 50.00 | 0 | 105.7 | 50.20 | 5.11 | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **54.3** | 50.00 | 0 | 108.7 | 51.12 | 6.11 | 01/14/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **53.6** | 50.00 | 0 | 107.1 | 50.09 | 6.71 | 01/14/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **49.6** | 50.00 | 0 | 99.1 | 48.80 | 1.55 | 01/14/2016 |
| Trichloroethene | 5.0 | | **56.7** | 50.00 | 0 | 113.4 | 52.69 | 7.30 | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **56.6** | 50.00 | 0 | 113.1 | 53.16 | 6.22 | 01/14/2016 |
| Vinyl acetate | 50.0 | | **54.8** | 50.00 | 0 | 109.5 | 51.23 | 6.68 | 01/14/2016 |
| Vinyl chloride | 2.0 | | **61.0** | 50.00 | 0 | 122.0 | 56.21 | 8.19 | 01/14/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697
**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115623** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **157** | 150.0 | 0 | 104.7 | 149.8 | 4.76 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **51.4** | 50.00 | | 102.7 | | | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **47.4** | 50.00 | | 94.9 | | | 01/14/2016 |
| Surr: Toluene-d8 | | | **48.3** | 50.00 | | 96.6 | | | 01/14/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16010697

**Client Project:** NGA 2015-0461.21

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115623** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **47.5** | 50.00 | 0 | 95.1 | 83.1 | 114 | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **51.9** | 50.00 | 0 | 103.9 | 78.5 | 119 | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **44.5** | 50.00 | 0 | 89.1 | 67.4 | 120 | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **53.3** | 50.00 | 0 | 106.7 | 75.4 | 121 | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **47.8** | 50.00 | 0 | 95.7 | 81.1 | 111 | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **115** | 125.0 | 0 | 92.4 | 55.4 | 131 | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 80.1 | 116 | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 73.1 | 121 | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **53.1** | 50.00 | 0 | 106.3 | 82.2 | 114 | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **48.9** | 50.00 | 0 | 97.7 | 81.7 | 130 | 01/14/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **43.6** | 50.00 | 0 | 87.1 | 67.8 | 118 | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **47.6** | 50.00 | 0 | 95.1 | 82.1 | 127 | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 72.3 | 141 | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 79.7 | 123 | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **44.7** | 50.00 | 0 | 89.3 | 62.1 | 123 | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **46.5** | 50.00 | 0 | 93.1 | 82.4 | 112 | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 82.7 | 119 | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 72.8 | 120 | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 80 | 116 | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 81.5 | 125 | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 82 | 124 | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 79.8 | 113 | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 81.1 | 124 | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **50.4** | 50.00 | 0 | 100.9 | 77.2 | 113 | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 76.6 | 121 | 01/14/2016 |
| 2-Butanone | 50.0 | | **131** | 125.0 | 0 | 104.6 | 62.8 | 131 | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 78.8 | 121 | 01/14/2016 |
| 2-Hexanone | 50.0 | | **123** | 125.0 | 0 | 98.0 | 63.1 | 125 | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **488** | 500.0 | 0 | 97.5 | 61.2 | 129 | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 77.6 | 124 | 01/14/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **116** | 125.0 | 0 | 92.5 | 60.6 | 126 | 01/14/2016 |
| Acetone | 50.0 | | **141** | 125.0 | 0 | 113.1 | 39.5 | 159 | 01/14/2016 |
| Acetonitrile | 100 | | **552** | 500.0 | 0 | 110.3 | 64.8 | 123 | 01/14/2016 |
| Acrolein | 100 | | **537** | 500.0 | 0 | 107.3 | 1 | 167 | 01/14/2016 |
| Acrylonitrile | 10.0 | | **49.8** | 50.00 | 0 | 99.5 | 67 | 124 | 01/14/2016 |
| Allyl chloride | 5.0 | | **50.4** | 50.00 | 0 | 100.9 | 58.5 | 129 | 01/14/2016 |
| Benzene | 1.0 | | **52.0** | 50.00 | 0 | 104.0 | 80.8 | 117 | 01/14/2016 |
| Bromobenzene | 5.0 | | **47.3** | 50.00 | 0 | 94.6 | 79.6 | 117 | 01/14/2016 |
| Bromochloromethane | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 70.7 | 121 | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 80.7 | 121 | 01/14/2016 |
| Bromoform | 5.0 | | **48.2** | 50.00 | 0 | 96.5 | 79.8 | 118 | 01/14/2016 |
| Bromomethane | 10.0 | | **41.8** | 50.00 | 0 | 83.6 | 1 | 175 | 01/14/2016 |
| Carbon disulfide | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 62.8 | 123 | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 77.6 | 123 | 01/14/2016 |
| Chlorobenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 85.6 | 116 | 01/14/2016 |
| Chloroethane | 10.0 | | **50.1** | 50.00 | 0 | 100.2 | 60.2 | 125 | 01/14/2016 |
| Chloroform | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 77.9 | 116 | 01/14/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16010697

**Client Project:** NGA 2015-0461.21

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115623** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **46.2** | 50.00 | 0 | 92.5 | 29.9 | 157 | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 80.1 | 116 | 01/14/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **53.2** | 50.00 | 0 | 106.5 | 80.5 | 121 | 01/14/2016 |
| Cyclohexanone | 100 | | **485** | 500.0 | 0 | 97.0 | 45.4 | 128 | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **48.0** | 50.00 | 0 | 96.1 | 84.3 | 116 | 01/14/2016 |
| Dibromomethane | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 76.6 | 115 | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **63.1** | 50.00 | 0 | 126.2 | 1 | 200 | 01/14/2016 |
| Diisopropyl ether | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 73.6 | 119 | 01/14/2016 |
| Ethyl ether | 5.0 | | **47.8** | 50.00 | 0 | 95.7 | 73.4 | 116 | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 76.2 | 120 | 01/14/2016 |
| Ethylbenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 84.8 | 116 | 01/14/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **49.7** | 50.00 | 0 | 99.5 | 73.8 | 119 | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 74 | 135 | 01/14/2016 |
| Hexachloroethane | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 76.4 | 121 | 01/14/2016 |
| Iodomethane | 10.0 | | **34.7** | 50.00 | 0 | 69.5 | 38.7 | 161 | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 85 | 125 | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **100** | 100.0 | 0 | 100.1 | 85.3 | 120 | 01/14/2016 |
| Methacrylonitrile | 50.0 | J | **49** | 50.00 | 0 | 98.0 | 65.7 | 120 | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 69.1 | 114 | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **50.9** | 50.00 | 0 | 101.9 | 66.6 | 125 | 01/14/2016 |
| Methylacrylate | 10.0 | | **50.5** | 50.00 | 0 | 101.0 | 69.7 | 121 | 01/14/2016 |
| Methylene chloride | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 73.4 | 115 | 01/14/2016 |
| Naphthalene | 10.0 | | **45.4** | 50.00 | 0 | 90.8 | 70.1 | 134 | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **53.1** | 50.00 | 0 | 106.1 | 78.4 | 138 | 01/14/2016 |
| n-Heptane | 20.0 | | **54.1** | 50.00 | 0 | 108.2 | 74.3 | 125 | 01/14/2016 |
| n-Hexane | 20.0 | | **54.8** | 50.00 | 0 | 109.7 | 66.3 | 129 | 01/14/2016 |
| Nitrobenzene | 100 | | **436** | 500.0 | 0 | 87.3 | 20.1 | 165 | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 79.1 | 125 | 01/14/2016 |
| o-Xylene | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 81.9 | 118 | 01/14/2016 |
| Pentachloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 72.7 | 123 | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **50.5** | 50.00 | 0 | 101.1 | 82.7 | 129 | 01/14/2016 |
| Propionitrile | 50.0 | | **509** | 500.0 | 0 | 101.8 | 64.3 | 121 | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 81.3 | 125 | 01/14/2016 |
| Styrene | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 88.2 | 122 | 01/14/2016 |
| tert-Amyl methyl ether | 5.0 | | **50.1** | 50.00 | 0 | 100.1 | 74.5 | 120 | 01/14/2016 |
| tert-Butyl alcohol | 50.0 | | **238** | 250.0 | 0 | 95.0 | 51.3 | 129 | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **47.5** | 50.00 | 0 | 95.1 | 74.8 | 125 | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **46.8** | 50.00 | 0 | 93.5 | 84.2 | 122 | 01/14/2016 |
| Tetrahydrofuran | 50.0 | J | **46** | 50.00 | 0 | 91.4 | 61 | 118 | 01/14/2016 |
| Toluene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 81.3 | 113 | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 78.2 | 118 | 01/14/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **50.1** | 50.00 | 0 | 100.2 | 81.7 | 124 | 01/14/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 63.9 | 117 | 01/14/2016 |
| Trichloroethene | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 81 | 123 | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **53.2** | 50.00 | 0 | 106.3 | 66.8 | 131 | 01/14/2016 |
| Vinyl acetate | 50.0 | | **51.2** | 50.00 | 0 | 102.5 | 64.3 | 122 | 01/14/2016 |
| Vinyl chloride | 2.0 | | **56.2** | 50.00 | 0 | 112.4 | 45.2 | 140 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115623 **SampType:** LCS Units **µg/Kg**

SampID: LCS-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **150** | 150.0 | 0 | 99.8 | 85.3 | 118 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **51.6** | 50.00 | | 103.3 | 72.2 | 131 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **48.7** | 50.00 | | 97.4 | 82.1 | 116 | 01/14/2016 |
| Surr: Toluene-d8 | | | **48.9** | 50.00 | | 97.9 | 86 | 116 | 01/14/2016 |

**Batch** 115623 **SampType:** LCSGD Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1830** | 2000 | 0 | 91.3 | 1873 | 2.49 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.8** | 50.00 | | 95.5 | | | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.2** | 50.00 | | 100.4 | | | 01/14/2016 |
| Surr: Toluene-d8 | | | **51.2** | 50.00 | | 102.5 | | | 01/14/2016 |

**Batch** 115623 **SampType:** LCSG Units **µg/Kg**

SampID: LCSG-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1870** | 2000 | 0 | 93.6 | 70 | 130 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.1** | 50.00 | | 96.2 | 72.2 | 131 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.4** | 50.00 | | 100.8 | 82.1 | 116 | 01/14/2016 |
| Surr: Toluene-d8 | | | **51.9** | 50.00 | | 103.8 | 86 | 116 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115652** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/15/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Acetone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Acetonitrile | 100 | | **ND** | | | | | | 01/15/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/15/2016 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Benzene | 1.0 | | **ND** | | | | | | 01/15/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Chloroform | 5.0 | | **ND** | | | | | | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115652** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/15/2016 |
| Cyclohexanone | 100 | | **ND** | | | | | | 01/15/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Iodomethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/15/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/15/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/15/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/15/2016 |
| Nitrobenzene | 100 | | **ND** | | | | | | 01/15/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/15/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 01/15/2016 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 01/15/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/15/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/15/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697
**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115652** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/15/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/15/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.1** | 50.00 | | 98.2 | 72.2 | 131 | 01/15/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.2** | 50.00 | | 98.4 | 82.1 | 116 | 01/15/2016 |
| Surr: Toluene-d8 | | | **48.9** | 50.00 | | 97.7 | 86 | 116 | 01/15/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16010697

**Client Project:** NGA 2015-0461.21

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115652** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 83.1 | 114 | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 78.5 | 119 | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 67.4 | 120 | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 75.4 | 121 | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 81.1 | 111 | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **110** | 125.0 | 0 | 87.8 | 55.4 | 131 | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **47.5** | 50.00 | 0 | 95.1 | 80.1 | 116 | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 73.1 | 121 | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 82.2 | 114 | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 81.7 | 130 | 01/14/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **51.5** | 50.00 | 0 | 103.1 | 67.8 | 118 | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 82.1 | 127 | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.3 | 72.3 | 141 | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 79.7 | 123 | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **46.0** | 50.00 | 0 | 92.1 | 62.1 | 123 | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 82.4 | 112 | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 82.7 | 119 | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 72.8 | 120 | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 80 | 116 | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 81.5 | 125 | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 82 | 124 | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 79.8 | 113 | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.7 | 81.1 | 124 | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 77.2 | 113 | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **50.5** | 50.00 | 0 | 100.9 | 76.6 | 121 | 01/14/2016 |
| 2-Butanone | 50.0 | | **112** | 125.0 | 0 | 89.4 | 62.8 | 131 | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **49.5** | 50.00 | 0 | 98.9 | 78.8 | 121 | 01/14/2016 |
| 2-Hexanone | 50.0 | | **107** | 125.0 | 0 | 85.3 | 63.1 | 125 | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **544** | 500.0 | 0 | 108.8 | 61.2 | 129 | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 77.6 | 124 | 01/14/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **126** | 125.0 | 0 | 101.1 | 60.6 | 126 | 01/14/2016 |
| Acetone | 50.0 | | **109** | 125.0 | 0 | 86.9 | 39.5 | 159 | 01/14/2016 |
| Acetonitrile | 100 | | **533** | 500.0 | 0 | 106.5 | 64.8 | 123 | 01/14/2016 |
| Acrolein | 100 | | **588** | 500.0 | 0 | 117.6 | 1 | 167 | 01/14/2016 |
| Acrylonitrile | 10.0 | | **51.5** | 50.00 | 0 | 103.1 | 67 | 124 | 01/14/2016 |
| Allyl chloride | 5.0 | | **44.9** | 50.00 | 0 | 89.8 | 58.5 | 129 | 01/14/2016 |
| Benzene | 1.0 | | **53.3** | 50.00 | 0 | 106.6 | 80.8 | 117 | 01/14/2016 |
| Bromobenzene | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 79.6 | 117 | 01/14/2016 |
| Bromochloromethane | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 70.7 | 121 | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 80.7 | 121 | 01/14/2016 |
| Bromoform | 5.0 | | **56.2** | 50.00 | 0 | 112.3 | 79.8 | 118 | 01/14/2016 |
| Bromomethane | 10.0 | | **50.2** | 50.00 | 0 | 100.3 | 1 | 175 | 01/14/2016 |
| Carbon disulfide | 5.0 | | **48.0** | 50.00 | 0 | 95.9 | 62.8 | 123 | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **54.8** | 50.00 | 0 | 109.5 | 77.6 | 123 | 01/14/2016 |
| Chlorobenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 85.6 | 116 | 01/14/2016 |
| Chloroethane | 10.0 | | **49.2** | 50.00 | 0 | 98.3 | 60.2 | 125 | 01/14/2016 |
| Chloroform | 5.0 | | **53.0** | 50.00 | 0 | 106.0 | 77.9 | 116 | 01/14/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16010697

**Client Project:** NGA 2015-0461.21

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115652** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **38.6** | 50.00 | 0 | 77.2 | 29.9 | 157 | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 80.1 | 116 | 01/14/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **51.9** | 50.00 | 0 | 103.8 | 80.5 | 121 | 01/14/2016 |
| Cyclohexanone | 100 | | **447** | 500.0 | 0 | 89.3 | 45.4 | 128 | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **52.3** | 50.00 | 0 | 104.5 | 84.3 | 116 | 01/14/2016 |
| Dibromomethane | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 76.6 | 115 | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **32.0** | 50.00 | 0 | 64.1 | 1 | 200 | 01/14/2016 |
| Diisopropyl ether | 5.0 | | **46.7** | 50.00 | 0 | 93.3 | 73.6 | 119 | 01/14/2016 |
| Ethyl ether | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 73.4 | 116 | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 76.2 | 120 | 01/14/2016 |
| Ethylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 84.8 | 116 | 01/14/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 73.8 | 119 | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 74 | 135 | 01/14/2016 |
| Hexachloroethane | 5.0 | | **49.7** | 50.00 | 0 | 99.5 | 76.4 | 121 | 01/14/2016 |
| Iodomethane | 10.0 | | **59.5** | 50.00 | 0 | 118.9 | 38.7 | 161 | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 85 | 125 | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **102** | 100.0 | 0 | 101.9 | 85.3 | 120 | 01/14/2016 |
| Methacrylonitrile | 50.0 | | **50.3** | 50.00 | 0 | 100.7 | 65.7 | 120 | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 69.1 | 114 | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **50.0** | 50.00 | 0 | 100.0 | 66.6 | 125 | 01/14/2016 |
| Methylacrylate | 10.0 | | **56.2** | 50.00 | 0 | 112.4 | 69.7 | 121 | 01/14/2016 |
| Methylene chloride | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 73.4 | 115 | 01/14/2016 |
| Naphthalene | 10.0 | | **49.6** | 50.00 | 0 | 99.3 | 70.1 | 134 | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 78.4 | 138 | 01/14/2016 |
| n-Heptane | 20.0 | | **47.4** | 50.00 | 0 | 94.8 | 74.3 | 125 | 01/14/2016 |
| n-Hexane | 20.0 | | **49.4** | 50.00 | 0 | 98.7 | 66.3 | 129 | 01/14/2016 |
| Nitrobenzene | 100 | | **466** | 500.0 | 0 | 93.2 | 20.1 | 165 | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 79.1 | 125 | 01/14/2016 |
| o-Xylene | 5.0 | | **51.1** | 50.00 | 0 | 102.1 | 81.9 | 118 | 01/14/2016 |
| Pentachloroethane | 5.0 | | **42.5** | 50.00 | 0 | 85.0 | 72.7 | 123 | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **48.1** | 50.00 | 0 | 96.1 | 82.7 | 129 | 01/14/2016 |
| Propionitrile | 50.0 | | **558** | 500.0 | 0 | 111.5 | 64.3 | 121 | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 81.3 | 125 | 01/14/2016 |
| Styrene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 88.2 | 122 | 01/14/2016 |
| tert-Amyl methyl ether | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 74.5 | 120 | 01/14/2016 |
| tert-Butyl alcohol | 50.0 | | **273** | 250.0 | 0 | 109.2 | 51.3 | 129 | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 74.8 | 125 | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **55.4** | 50.00 | 0 | 110.8 | 84.2 | 122 | 01/14/2016 |
| Tetrahydrofuran | 50.0 | J | **49** | 50.00 | 0 | 97.8 | 61 | 118 | 01/14/2016 |
| Toluene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 81.3 | 113 | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 78.2 | 118 | 01/14/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **49.7** | 50.00 | 0 | 99.4 | 81.7 | 124 | 01/14/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **46.4** | 50.00 | 0 | 92.7 | 63.9 | 117 | 01/14/2016 |
| Trichloroethene | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 81 | 123 | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 66.8 | 131 | 01/14/2016 |
| Vinyl acetate | 50.0 | J | **48** | 50.00 | 0 | 96.1 | 64.3 | 122 | 01/14/2016 |
| Vinyl chloride | 2.0 | | **44.3** | 50.00 | 0 | 88.6 | 45.2 | 140 | 01/14/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115652** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **153** | 150.0 | 0 | 102.0 | 85.3 | 118 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.4** | 50.00 | | 96.8 | 72.2 | 131 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.2** | 50.00 | | 100.3 | 82.1 | 116 | 01/14/2016 |
| Surr: Toluene-d8 | | | **47.1** | 50.00 | | 94.1 | 86 | 116 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115652** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 51.12 | 0.22 | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 53.75 | 0.50 | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 49.02 | 1.31 | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 52.13 | 3.15 | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 51.36 | 1.19 | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **110** | 125.0 | 0 | 88.1 | 109.7 | 0.38 | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 47.53 | 10.47 | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 50.01 | 0.99 | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **53.0** | 50.00 | 0 | 106.0 | 52.45 | 1.04 | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 50.55 | 0.62 | 01/14/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **51.2** | 50.00 | 0 | 102.5 | 51.53 | 0.56 | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **46.8** | 50.00 | 0 | 93.7 | 46.82 | 0.02 | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 49.14 | 0.04 | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 50.49 | 1.73 | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 46.05 | 2.28 | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.3** | 50.00 | 0 | 98.7 | 49.81 | 0.95 | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **49.2** | 50.00 | 0 | 98.3 | 49.39 | 0.45 | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 50.96 | 0.02 | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.9** | 50.00 | 0 | 103.7 | 51.62 | 0.48 | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 49.02 | 0.57 | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 49.02 | 0.75 | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **49.9** | 50.00 | 0 | 99.7 | 49.78 | 0.16 | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.1 | 48.85 | 0.45 | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 50.36 | 0.40 | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **50.8** | 50.00 | 0 | 101.6 | 50.46 | 0.63 | 01/14/2016 |
| 2-Butanone | 50.0 | | **113** | 125.0 | 0 | 90.2 | 111.7 | 0.96 | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 49.47 | 1.41 | 01/14/2016 |
| 2-Hexanone | 50.0 | | **106** | 125.0 | 0 | 84.9 | 106.6 | 0.50 | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **551** | 500.0 | 0 | 110.2 | 543.8 | 1.29 | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 48.68 | 1.08 | 01/14/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **126** | 125.0 | 0 | 100.6 | 126.4 | 0.46 | 01/14/2016 |
| Acetone | 50.0 | | **113** | 125.0 | 0 | 90.8 | 108.6 | 4.35 | 01/14/2016 |
| Acetonitrile | 100 | | **528** | 500.0 | 0 | 105.7 | 532.6 | 0.78 | 01/14/2016 |
| Acrolein | 100 | | **615** | 500.0 | 0 | 122.9 | 588.1 | 4.41 | 01/14/2016 |
| Acrylonitrile | 10.0 | | **51.4** | 50.00 | 0 | 102.9 | 51.54 | 0.21 | 01/14/2016 |
| Allyl chloride | 5.0 | | **45.9** | 50.00 | 0 | 91.8 | 44.92 | 2.14 | 01/14/2016 |
| Benzene | 1.0 | | **53.6** | 50.00 | 0 | 107.3 | 53.28 | 0.67 | 01/14/2016 |
| Bromobenzene | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 48.40 | 0.06 | 01/14/2016 |
| Bromochloromethane | 5.0 | | **48.5** | 50.00 | 0 | 97.1 | 48.41 | 0.25 | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 51.29 | 0.12 | 01/14/2016 |
| Bromoform | 5.0 | | **56.2** | 50.00 | 0 | 112.4 | 56.17 | 0.04 | 01/14/2016 |
| Bromomethane | 10.0 | | **49.1** | 50.00 | 0 | 98.2 | 50.15 | 2.16 | 01/14/2016 |
| Carbon disulfide | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 47.96 | 1.47 | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **55.2** | 50.00 | 0 | 110.4 | 54.76 | 0.76 | 01/14/2016 |
| Chlorobenzene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 51.84 | 0.48 | 01/14/2016 |
| Chloroethane | 10.0 | | **48.6** | 50.00 | 0 | 97.3 | 49.17 | 1.08 | 01/14/2016 |
| Chloroform | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 53.01 | 0.15 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115652** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **37.4** | 50.00 | 0 | 74.8 | 38.61 | 3.16 | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 49.32 | 0.24 | 01/14/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **51.9** | 50.00 | 0 | 103.8 | 51.89 | 0.06 | 01/14/2016 |
| Cyclohexanone | 100 | | **452** | 500.0 | 0 | 90.4 | 446.6 | 1.22 | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 52.27 | 0.94 | 01/14/2016 |
| Dibromomethane | 5.0 | | **53.2** | 50.00 | 0 | 106.3 | 52.70 | 0.89 | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **32.1** | 50.00 | 0 | 64.2 | 32.03 | 0.19 | 01/14/2016 |
| Diisopropyl ether | 5.0 | | **47.0** | 50.00 | 0 | 94.1 | 46.66 | 0.83 | 01/14/2016 |
| Ethyl ether | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 48.79 | 0.62 | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 51.43 | 1.06 | 01/14/2016 |
| Ethylbenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 48.72 | 0.21 | 01/14/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **48.6** | 50.00 | 0 | 97.2 | 48.39 | 0.43 | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **51.3** | 50.00 | 0 | 102.7 | 50.24 | 2.17 | 01/14/2016 |
| Hexachloroethane | 5.0 | | **49.9** | 50.00 | 0 | 99.7 | 49.73 | 0.26 | 01/14/2016 |
| Iodomethane | 10.0 | | **59.8** | 50.00 | 0 | 119.5 | 59.47 | 0.49 | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **49.3** | 50.00 | 0 | 98.5 | 49.90 | 1.27 | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **102** | 100.0 | 0 | 101.9 | 101.9 | 0.03 | 01/14/2016 |
| Methacrylonitrile | 50.0 | J | **50** | 50.00 | 0 | 99.6 | 50.33 | 0.00 | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 50.28 | 0.08 | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **50.1** | 50.00 | 0 | 100.2 | 49.98 | 0.20 | 01/14/2016 |
| Methylacrylate | 10.0 | | **56.0** | 50.00 | 0 | 111.9 | 56.18 | 0.37 | 01/14/2016 |
| Methylene chloride | 5.0 | | **49.5** | 50.00 | 0 | 98.9 | 49.70 | 0.48 | 01/14/2016 |
| Naphthalene | 10.0 | | **50.8** | 50.00 | 0 | 101.7 | 49.64 | 2.37 | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 47.90 | 2.88 | 01/14/2016 |
| n-Heptane | 20.0 | | **49.8** | 50.00 | 0 | 99.7 | 47.40 | 5.00 | 01/14/2016 |
| n-Hexane | 20.0 | | **51.0** | 50.00 | 0 | 102.0 | 49.37 | 3.25 | 01/14/2016 |
| Nitrobenzene | 100 | | **481** | 500.0 | 0 | 96.2 | 465.8 | 3.20 | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 49.40 | 2.58 | 01/14/2016 |
| o-Xylene | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 51.07 | 0.94 | 01/14/2016 |
| Pentachloroethane | 5.0 | S | **33.6** | 50.00 | 0 | 67.2 | 42.52 | 23.41 | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 48.07 | 2.28 | 01/14/2016 |
| Propionitrile | 50.0 | | **559** | 500.0 | 0 | 111.8 | 557.5 | 0.24 | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 48.49 | 1.45 | 01/14/2016 |
| Styrene | 5.0 | | **52.0** | 50.00 | 0 | 103.9 | 51.78 | 0.35 | 01/14/2016 |
| tert-Amyl methyl ether | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 50.48 | 0.40 | 01/14/2016 |
| tert-Butyl alcohol | 50.0 | | **276** | 250.0 | 0 | 110.2 | 273.1 | 0.89 | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 51.88 | 0.46 | 01/14/2016 |
| Tetrachloroethene | 5.0 | S | **61.7** | 50.00 | 0 | 123.3 | 55.40 | 10.70 | 01/14/2016 |
| Tetrahydrofuran | 50.0 | | **51.8** | 50.00 | 0 | 103.6 | 48.91 | 5.70 | 01/14/2016 |
| Toluene | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 50.21 | 0.10 | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 51.63 | 0.93 | 01/14/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **49.7** | 50.00 | 0 | 99.4 | 49.72 | 0.04 | 01/14/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **46.4** | 50.00 | 0 | 92.8 | 46.35 | 0.09 | 01/14/2016 |
| Trichloroethene | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 53.89 | 3.11 | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 50.73 | 0.43 | 01/14/2016 |
| Vinyl acetate | 50.0 | J | **44** | 50.00 | 0 | 87.9 | 48.07 | 0.00 | 01/14/2016 |
| Vinyl chloride | 2.0 | | **43.9** | 50.00 | 0 | 87.8 | 44.32 | 0.97 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115652** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **152** | 150.0 | 0 | 101.6 | 153.0 | 0.33 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.5** | 50.00 | | 97.0 | | | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.6** | 50.00 | | 99.1 | | | 01/14/2016 |
| Surr: Toluene-d8 | | | **47.3** | 50.00 | | 94.7 | | | 01/14/2016 |

**Batch 115652** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1990** | 2000 | 0 | 99.6 | 70 | 130 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.3** | 50.00 | | 98.7 | 72.2 | 131 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **48.9** | 50.00 | | 97.7 | 82.1 | 116 | 01/14/2016 |
| Surr: Toluene-d8 | | | **48.8** | 50.00 | | 97.5 | 86 | 116 | 01/14/2016 |

**Batch 115652** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2030** | 2000 | 0 | 101.6 | 1992 | 1.93 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.5** | 50.00 | | 97.1 | | | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.0** | 50.00 | | 98.0 | | | 01/14/2016 |
| Surr: Toluene-d8 | | | **48.3** | 50.00 | | 96.6 | | | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115663** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/15/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Acetone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Acetonitrile | 100 | | **ND** | | | | | | 01/15/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/15/2016 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Benzene | 1.0 | | **ND** | | | | | | 01/15/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Chloroform | 5.0 | | **ND** | | | | | | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115663** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/15/2016 |
| Cyclohexanone | 100 | | **ND** | | | | | | 01/15/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Iodomethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/15/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Methylene chloride | 5.0 | J | **1.1** | | | | | | 01/15/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/15/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/15/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/15/2016 |
| Nitrobenzene | 100 | | **ND** | | | | | | 01/15/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/15/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 01/15/2016 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 01/15/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/15/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115663** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/15/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/15/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.7** | 50.00 | | 97.4 | 72.2 | 131 | 01/15/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.1** | 50.00 | | 98.3 | 82.1 | 116 | 01/15/2016 |
| Surr: Toluene-d8 | | | **47.5** | 50.00 | | 95.1 | 86 | 116 | 01/15/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16010697

**Client Project:** NGA 2015-0461.21

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115663** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 83.1 | 114 | 01/15/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **55.1** | 50.00 | 0 | 110.2 | 78.5 | 119 | 01/15/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.9** | 50.00 | 0 | 97.9 | 67.4 | 120 | 01/15/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **57.3** | 50.00 | 0 | 114.6 | 75.4 | 121 | 01/15/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 81.1 | 111 | 01/15/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **110** | 125.0 | 0 | 88.2 | 55.4 | 131 | 01/15/2016 |
| 1,1-Dichloroethane | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 80.1 | 116 | 01/15/2016 |
| 1,1-Dichloroethene | 5.0 | | **54.7** | 50.00 | 0 | 109.5 | 73.1 | 121 | 01/15/2016 |
| 1,1-Dichloropropene | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 82.2 | 114 | 01/15/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **56.2** | 50.00 | 0 | 112.5 | 81.7 | 130 | 01/15/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **50.6** | 50.00 | 0 | 101.1 | 67.8 | 118 | 01/15/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 82.1 | 127 | 01/15/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **58.8** | 50.00 | 0 | 117.6 | 72.3 | 141 | 01/15/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 79.7 | 123 | 01/15/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **46.9** | 50.00 | 0 | 93.7 | 62.1 | 123 | 01/15/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 82.4 | 112 | 01/15/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 82.7 | 119 | 01/15/2016 |
| 1,2-Dichloroethane | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 72.8 | 120 | 01/15/2016 |
| 1,2-Dichloropropane | 5.0 | | **52.3** | 50.00 | 0 | 104.5 | 80 | 116 | 01/15/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 81.5 | 125 | 01/15/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 82 | 124 | 01/15/2016 |
| 1,3-Dichloropropane | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 79.8 | 113 | 01/15/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 81.1 | 124 | 01/15/2016 |
| 1-Chlorobutane | 5.0 | | **52.7** | 50.00 | 0 | 105.3 | 77.2 | 113 | 01/15/2016 |
| 2,2-Dichloropropane | 5.0 | | **54.9** | 50.00 | 0 | 109.7 | 76.6 | 121 | 01/15/2016 |
| 2-Butanone | 50.0 | | **114** | 125.0 | 0 | 91.3 | 62.8 | 131 | 01/15/2016 |
| 2-Chlorotoluene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 78.8 | 121 | 01/15/2016 |
| 2-Hexanone | 50.0 | | **105** | 125.0 | 0 | 83.9 | 63.1 | 125 | 01/15/2016 |
| 2-Nitropropane | 50.0 | | **544** | 500.0 | 0 | 108.9 | 61.2 | 129 | 01/15/2016 |
| 4-Chlorotoluene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 77.6 | 124 | 01/15/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **121** | 125.0 | 0 | 96.9 | 60.6 | 126 | 01/15/2016 |
| Acetone | 50.0 | | **124** | 125.0 | 0 | 99.2 | 39.5 | 159 | 01/15/2016 |
| Acetonitrile | 100 | | **560** | 500.0 | 0 | 112.0 | 64.8 | 123 | 01/15/2016 |
| Acrolein | 100 | | **551** | 500.0 | 0 | 110.3 | 1 | 167 | 01/15/2016 |
| Acrylonitrile | 10.0 | | **53.1** | 50.00 | 0 | 106.2 | 67 | 124 | 01/15/2016 |
| Allyl chloride | 5.0 | | **49.3** | 50.00 | 0 | 98.7 | 58.5 | 129 | 01/15/2016 |
| Benzene | 1.0 | | **54.6** | 50.00 | 0 | 109.2 | 80.8 | 117 | 01/15/2016 |
| Bromobenzene | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 79.6 | 117 | 01/15/2016 |
| Bromochloromethane | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 70.7 | 121 | 01/15/2016 |
| Bromodichloromethane | 5.0 | | **52.3** | 50.00 | 0 | 104.5 | 80.7 | 121 | 01/15/2016 |
| Bromoform | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 79.8 | 118 | 01/15/2016 |
| Bromomethane | 10.0 | | **53.5** | 50.00 | 0 | 107.1 | 1 | 175 | 01/15/2016 |
| Carbon disulfide | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 62.8 | 123 | 01/15/2016 |
| Carbon tetrachloride | 5.0 | | **57.0** | 50.00 | 0 | 113.9 | 77.6 | 123 | 01/15/2016 |
| Chlorobenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.1 | 85.6 | 116 | 01/15/2016 |
| Chloroethane | 10.0 | | **51.9** | 50.00 | 0 | 103.7 | 60.2 | 125 | 01/15/2016 |
| Chloroform | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 77.9 | 116 | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115663** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **41.0** | 50.00 | 0 | 81.9 | 29.9 | 157 | 01/15/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 80.1 | 116 | 01/15/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **53.6** | 50.00 | 0 | 107.3 | 80.5 | 121 | 01/15/2016 |
| Cyclohexanone | 100 | | **465** | 500.0 | 0 | 92.9 | 45.4 | 128 | 01/15/2016 |
| Dibromochloromethane | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 84.3 | 116 | 01/15/2016 |
| Dibromomethane | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 76.6 | 115 | 01/15/2016 |
| Dichlorodifluoromethane | 10.0 | | **35.5** | 50.00 | 0 | 71.1 | 1 | 200 | 01/15/2016 |
| Diisopropyl ether | 5.0 | | **47.3** | 50.00 | 0 | 94.7 | 73.6 | 119 | 01/15/2016 |
| Ethyl ether | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 73.4 | 116 | 01/15/2016 |
| Ethyl methacrylate | 5.0 | | **49.7** | 50.00 | 0 | 99.5 | 76.2 | 120 | 01/15/2016 |
| Ethylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.6 | 84.8 | 116 | 01/15/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 73.8 | 119 | 01/15/2016 |
| Hexachlorobutadiene | 5.0 | | **58.5** | 50.00 | 0 | 117.0 | 74 | 135 | 01/15/2016 |
| Hexachloroethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 76.4 | 121 | 01/15/2016 |
| Iodomethane | 10.0 | | **62.0** | 50.00 | 0 | 124.0 | 38.7 | 161 | 01/15/2016 |
| Isopropylbenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 85 | 125 | 01/15/2016 |
| m,p-Xylenes | 5.0 | | **109** | 100.0 | 0 | 108.9 | 85.3 | 120 | 01/15/2016 |
| Methacrylonitrile | 50.0 | | **50.5** | 50.00 | 0 | 101.1 | 65.7 | 120 | 01/15/2016 |
| Methyl Methacrylate | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 69.1 | 114 | 01/15/2016 |
| Methyl tert-butyl ether | 2.0 | | **49.4** | 50.00 | 0 | 98.7 | 66.6 | 125 | 01/15/2016 |
| Methylacrylate | 10.0 | | **55.4** | 50.00 | 0 | 110.9 | 69.7 | 121 | 01/15/2016 |
| Methylene chloride | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 73.4 | 115 | 01/15/2016 |
| Naphthalene | 10.0 | | **51.6** | 50.00 | 0 | 103.1 | 70.1 | 134 | 01/15/2016 |
| n-Butylbenzene | 5.0 | | **55.1** | 50.00 | 0 | 110.3 | 78.4 | 138 | 01/15/2016 |
| n-Heptane | 20.0 | | **55.4** | 50.00 | 0 | 110.8 | 74.3 | 125 | 01/15/2016 |
| n-Hexane | 20.0 | | **56.0** | 50.00 | 0 | 112.0 | 66.3 | 129 | 01/15/2016 |
| Nitrobenzene | 100 | | **425** | 500.0 | 0 | 84.9 | 20.1 | 165 | 01/15/2016 |
| n-Propylbenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.7 | 79.1 | 125 | 01/15/2016 |
| o-Xylene | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 81.9 | 118 | 01/15/2016 |
| Pentachloroethane | 5.0 | | **55.0** | 50.00 | 0 | 110.1 | 72.7 | 123 | 01/15/2016 |
| p-Isopropyltoluene | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 82.7 | 129 | 01/15/2016 |
| Propionitrile | 50.0 | | **567** | 500.0 | 0 | 113.5 | 64.3 | 121 | 01/15/2016 |
| sec-Butylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 81.3 | 125 | 01/15/2016 |
| Styrene | 5.0 | | **54.6** | 50.00 | 0 | 109.1 | 88.2 | 122 | 01/15/2016 |
| tert-Amyl methyl ether | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 74.5 | 120 | 01/15/2016 |
| tert-Butyl alcohol | 50.0 | | **275** | 250.0 | 0 | 109.8 | 51.3 | 129 | 01/15/2016 |
| tert-Butylbenzene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 74.8 | 125 | 01/15/2016 |
| Tetrachloroethene | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 84.2 | 122 | 01/15/2016 |
| Tetrahydrofuran | 50.0 | J | **48** | 50.00 | 0 | 96.3 | 61 | 118 | 01/15/2016 |
| Toluene | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 81.3 | 113 | 01/15/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 78.2 | 118 | 01/15/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **50.2** | 50.00 | 0 | 100.5 | 81.7 | 124 | 01/15/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **46.9** | 50.00 | 0 | 93.7 | 63.9 | 117 | 01/15/2016 |
| Trichloroethene | 5.0 | | **56.3** | 50.00 | 0 | 112.7 | 81 | 123 | 01/15/2016 |
| Trichlorofluoromethane | 5.0 | | **56.4** | 50.00 | 0 | 112.8 | 66.8 | 131 | 01/15/2016 |
| Vinyl acetate | 50.0 | | **53.4** | 50.00 | 0 | 106.7 | 64.3 | 122 | 01/15/2016 |
| Vinyl chloride | 2.0 | | **46.3** | 50.00 | 0 | 92.6 | 45.2 | 140 | 01/15/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115663** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **162** | 150.0 | 0 | 108.0 | 85.3 | 118 | 01/15/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.9** | 50.00 | | 97.9 | 72.2 | 131 | 01/15/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.0** | 50.00 | | 98.0 | 82.1 | 116 | 01/15/2016 |
| Surr: Toluene-d8 | | | **46.6** | 50.00 | | 93.2 | 86 | 116 | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115663** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 50.56 | 0.04 | 01/15/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **55.5** | 50.00 | 0 | 111.1 | 55.12 | 0.74 | 01/15/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **47.2** | 50.00 | 0 | 94.4 | 48.93 | 3.60 | 01/15/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **57.4** | 50.00 | 0 | 114.9 | 57.31 | 0.23 | 01/15/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 50.20 | 0.18 | 01/15/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **112** | 125.0 | 0 | 89.9 | 110.3 | 1.83 | 01/15/2016 |
| 1,1-Dichloroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 55.52 | 8.04 | 01/15/2016 |
| 1,1-Dichloroethene | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 54.73 | 1.07 | 01/15/2016 |
| 1,1-Dichloropropene | 5.0 | | **55.9** | 50.00 | 0 | 111.7 | 55.58 | 0.50 | 01/15/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **57.1** | 50.00 | 0 | 114.2 | 56.23 | 1.54 | 01/15/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **48.7** | 50.00 | 0 | 97.4 | 50.57 | 3.73 | 01/15/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 49.01 | 0.66 | 01/15/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **58.5** | 50.00 | 0 | 117.0 | 58.81 | 0.55 | 01/15/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 54.15 | 0.18 | 01/15/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **45.1** | 50.00 | 0 | 90.1 | 46.86 | 3.92 | 01/15/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.2** | 50.00 | 0 | 98.5 | 49.84 | 1.21 | 01/15/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 52.16 | 0.65 | 01/15/2016 |
| 1,2-Dichloroethane | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 52.03 | 0.19 | 01/15/2016 |
| 1,2-Dichloropropane | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 52.26 | 0.25 | 01/15/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 51.58 | 0.43 | 01/15/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 53.38 | 0.00 | 01/15/2016 |
| 1,3-Dichloropropane | 5.0 | | **49.2** | 50.00 | 0 | 98.3 | 48.90 | 0.53 | 01/15/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **53.0** | 50.00 | 0 | 106.0 | 53.77 | 1.40 | 01/15/2016 |
| 1-Chlorobutane | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 52.66 | 0.55 | 01/15/2016 |
| 2,2-Dichloropropane | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 54.86 | 0.46 | 01/15/2016 |
| 2-Butanone | 50.0 | | **111** | 125.0 | 0 | 88.8 | 114.2 | 2.81 | 01/15/2016 |
| 2-Chlorotoluene | 5.0 | | **52.0** | 50.00 | 0 | 103.9 | 52.18 | 0.42 | 01/15/2016 |
| 2-Hexanone | 50.0 | | **100** | 125.0 | 0 | 80.0 | 104.9 | 4.81 | 01/15/2016 |
| 2-Nitropropane | 50.0 | | **538** | 500.0 | 0 | 107.6 | 544.4 | 1.17 | 01/15/2016 |
| 4-Chlorotoluene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 52.47 | 1.27 | 01/15/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **118** | 125.0 | 0 | 94.2 | 121.2 | 2.89 | 01/15/2016 |
| Acetone | 50.0 | | **124** | 125.0 | 0 | 99.5 | 124.0 | 0.29 | 01/15/2016 |
| Acetonitrile | 100 | | **540** | 500.0 | 0 | 108.0 | 560.1 | 3.69 | 01/15/2016 |
| Acrolein | 100 | | **553** | 500.0 | 0 | 110.6 | 551.4 | 0.29 | 01/15/2016 |
| Acrylonitrile | 10.0 | | **51.8** | 50.00 | 0 | 103.7 | 53.08 | 2.38 | 01/15/2016 |
| Allyl chloride | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 49.33 | 0.51 | 01/15/2016 |
| Benzene | 1.0 | | **54.9** | 50.00 | 0 | 109.8 | 54.62 | 0.51 | 01/15/2016 |
| Bromobenzene | 5.0 | | **47.6** | 50.00 | 0 | 95.2 | 48.42 | 1.69 | 01/15/2016 |
| Bromochloromethane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 51.38 | 0.29 | 01/15/2016 |
| Bromodichloromethane | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 52.26 | 0.80 | 01/15/2016 |
| Bromoform | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 55.58 | 2.31 | 01/15/2016 |
| Bromomethane | 10.0 | | **53.0** | 50.00 | 0 | 105.9 | 53.53 | 1.09 | 01/15/2016 |
| Carbon disulfide | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 52.20 | 0.54 | 01/15/2016 |
| Carbon tetrachloride | 5.0 | | **57.6** | 50.00 | 0 | 115.1 | 56.97 | 1.05 | 01/15/2016 |
| Chlorobenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.3 | 53.57 | 0.17 | 01/15/2016 |
| Chloroethane | 10.0 | | **51.9** | 50.00 | 0 | 103.8 | 51.87 | 0.02 | 01/15/2016 |
| Chloroform | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 54.51 | 0.69 | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115663** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **40.9** | 50.00 | 0 | 81.8 | 40.96 | 0.12 | 01/15/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 51.88 | 1.78 | 01/15/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **53.6** | 50.00 | 0 | 107.1 | 53.63 | 0.11 | 01/15/2016 |
| Cyclohexanone | 100 | | **455** | 500.0 | 0 | 90.9 | 464.7 | 2.22 | 01/15/2016 |
| Dibromochloromethane | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 51.50 | 0.41 | 01/15/2016 |
| Dibromomethane | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 53.64 | 0.47 | 01/15/2016 |
| Dichlorodifluoromethane | 10.0 | | **34.5** | 50.00 | 0 | 69.0 | 35.53 | 2.94 | 01/15/2016 |
| Diisopropyl ether | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 47.34 | 1.38 | 01/15/2016 |
| Ethyl ether | 5.0 | | **48.5** | 50.00 | 0 | 97.1 | 48.78 | 0.51 | 01/15/2016 |
| Ethyl methacrylate | 5.0 | | **48.6** | 50.00 | 0 | 97.2 | 49.74 | 2.34 | 01/15/2016 |
| Ethylbenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.7 | 50.82 | 0.10 | 01/15/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 48.10 | 1.22 | 01/15/2016 |
| Hexachlorobutadiene | 5.0 | | **58.5** | 50.00 | 0 | 117.0 | 58.49 | 0.03 | 01/15/2016 |
| Hexachloroethane | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 51.09 | 2.52 | 01/15/2016 |
| Iodomethane | 10.0 | | **62.7** | 50.00 | 0 | 125.4 | 61.99 | 1.12 | 01/15/2016 |
| Isopropylbenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 53.29 | 1.72 | 01/15/2016 |
| m,p-Xylenes | 5.0 | | **109** | 100.0 | 0 | 108.6 | 108.9 | 0.26 | 01/15/2016 |
| Methacrylonitrile | 50.0 | J | **50** | 50.00 | 0 | 98.9 | 50.53 | 0.00 | 01/15/2016 |
| Methyl Methacrylate | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 50.31 | 1.46 | 01/15/2016 |
| Methyl tert-butyl ether | 2.0 | | **49.4** | 50.00 | 0 | 98.7 | 49.37 | 0.02 | 01/15/2016 |
| Methylacrylate | 10.0 | | **54.1** | 50.00 | 0 | 108.1 | 55.44 | 2.50 | 01/15/2016 |
| Methylene chloride | 5.0 | | **52.2** | 50.00 | 0 | 104.5 | 52.60 | 0.69 | 01/15/2016 |
| Naphthalene | 10.0 | | **52.3** | 50.00 | 0 | 104.6 | 51.55 | 1.41 | 01/15/2016 |
| n-Butylbenzene | 5.0 | | **54.5** | 50.00 | 0 | 109.1 | 55.13 | 1.08 | 01/15/2016 |
| n-Heptane | 20.0 | | **53.4** | 50.00 | 0 | 106.8 | 55.41 | 3.68 | 01/15/2016 |
| n-Hexane | 20.0 | | **55.3** | 50.00 | 0 | 110.6 | 55.98 | 1.24 | 01/15/2016 |
| Nitrobenzene | 100 | | **431** | 500.0 | 0 | 86.2 | 424.5 | 1.50 | 01/15/2016 |
| n-Propylbenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.7 | 53.35 | 0.04 | 01/15/2016 |
| o-Xylene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 53.09 | 1.24 | 01/15/2016 |
| Pentachloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 55.05 | 9.00 | 01/15/2016 |
| p-Isopropyltoluene | 5.0 | | **52.4** | 50.00 | 0 | 104.7 | 52.64 | 0.53 | 01/15/2016 |
| Propionitrile | 50.0 | | **559** | 500.0 | 0 | 111.7 | 567.4 | 1.55 | 01/15/2016 |
| sec-Butylbenzene | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 51.44 | 1.04 | 01/15/2016 |
| Styrene | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 54.57 | 0.74 | 01/15/2016 |
| tert-Amyl methyl ether | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 49.83 | 0.18 | 01/15/2016 |
| tert-Butyl alcohol | 50.0 | | **260** | 250.0 | 0 | 104.2 | 274.6 | 5.31 | 01/15/2016 |
| tert-Butylbenzene | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 51.91 | 1.30 | 01/15/2016 |
| Tetrachloroethene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 50.56 | 4.49 | 01/15/2016 |
| Tetrahydrofuran | 50.0 | J | **50** | 50.00 | 0 | 99.1 | 48.17 | 0.00 | 01/15/2016 |
| Toluene | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 51.15 | 0.70 | 01/15/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 54.60 | 0.04 | 01/15/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **49.7** | 50.00 | 0 | 99.5 | 50.25 | 1.04 | 01/15/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **45.6** | 50.00 | 0 | 91.2 | 46.87 | 2.72 | 01/15/2016 |
| Trichloroethene | 5.0 | | **57.6** | 50.00 | 0 | 115.1 | 56.34 | 2.16 | 01/15/2016 |
| Trichlorofluoromethane | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 56.41 | 5.80 | 01/15/2016 |
| Vinyl acetate | 50.0 | | **53.1** | 50.00 | 0 | 106.3 | 53.36 | 0.43 | 01/15/2016 |
| Vinyl chloride | 2.0 | | **45.8** | 50.00 | 0 | 91.7 | 46.31 | 1.04 | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115663** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **162** | 150.0 | 0 | 108.3 | 162.0 | 0.23 | 01/15/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.0** | 50.00 | | 98.0 | | | 01/15/2016 |
| Surr: 4-Bromofluorobenzene | | | **48.8** | 50.00 | | 97.6 | | | 01/15/2016 |
| Surr: Toluene-d8 | | | **46.8** | 50.00 | | 93.5 | | | 01/15/2016 |

**Batch 115663** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1980** | 2000 | 0 | 99.1 | 70 | 130 | 01/15/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.5** | 50.00 | | 96.9 | 72.2 | 131 | 01/15/2016 |
| Surr: 4-Bromofluorobenzene | | | **48.1** | 50.00 | | 96.3 | 82.1 | 116 | 01/15/2016 |
| Surr: Toluene-d8 | | | **48.4** | 50.00 | | 96.8 | 86 | 116 | 01/15/2016 |

**Batch 115663** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2060** | 2000 | 0 | 103.0 | 1982 | 3.86 | 01/15/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.5** | 50.00 | | 97.1 | | | 01/15/2016 |
| Surr: 4-Bromofluorobenzene | | | **48.0** | 50.00 | | 96.0 | | | 01/15/2016 |
| Surr: Toluene-d8 | | | **47.5** | 50.00 | | 95.0 | | | 01/15/2016 |

# Receiving Check List

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697
**Report Date:** 19-Jan-16

**Carrier:** Nick Harvey

**Received By:** MAK

**Completed by:** M. Kaminski
**On:** 14-Jan-16
Mary Anne Kaminski

**Reviewed by:** Elizabeth A. Hurley
**On:** 14-Jan-16
Elizabeth A. Hurley

**Pages to follow:** Chain of custody 3 Extra pages included 0

| | | | | |
|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ | Temp °C 8.02 |
| Type of thermal preservation? | None ☐ | Ice ☑ | Blue Ice ☐ | Dry Ice ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | | |
| Sample containers intact? | Yes ☑ | No ☐ | | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | | |
| All samples received within holding time? | Yes ☑ | No ☐ | | |
| Reported field parameters measured: | Field ☐ | Lab ☐ | NA ☑ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | | |

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

| | | | |
|---|---|---|---|
| Water – at least one vial per sample has zero headspace? | Yes ☑ | No ☐ | No VOA vials ☐ |
| Water - TOX containers have zero headspace? | Yes ☐ | No ☐ | No TOX containers ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | NA ☐ |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes ☐ | No ☐ | NA ☑ |

**Any No responses must be detailed below or on the COC.**

Trip Blank collection date and time will be reported as the received date and time (end of trip).

# CHAIN OF CUSTODY

pg. 1 of 3 Work order # 16010647

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☐ ICE ☐ BLUE ICE ☐ NO ICE 8.02 °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes** zero head space made 1/14/16

**Client Comments:** Meet MRBCA DTLs.

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number** NGA 2015-0461.21

**Sample Collector's Name** Travis Clayton

**Results Requested** ☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

**Billing Instructions** 2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 | Courier |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16010647 001 | TB-9 | 1-13-2016 8:00 | | | | | | | | 2 | | X | | | | | | | | X | |
| 002 | SCI-61A(0-3) | 8:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 003 | SCI-61B(15-20) | 8:45 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 004 | SCI-63A(0-3) | 9:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 005 | SCI-63B(15-20) | 9:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 006 | SCI-64A(0-3) | 9:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 007 | SCI-64B(15-20) | 9:55 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 008 | SCI-65A(0-3) | 10:10 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 009 | SCI-65B(15-20) | 10:25 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 010 | SCI-66A(0-3) | 10:45 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 1-13-2016 4:30 | | 1/13/16 4:30 |
| | 1/13/16 17:10 | M. Kamuraski | 1/13/16 17:10 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

# CHAIN OF CUSTODY

pg. 2 of 3 Work order # 16010697

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**

**Client Comments:**

Meet MRBCA DTLs.

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☐ No
Are these samples known to be hazardous? ☐ Yes ☐ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16010697 011 | SCI-66B(10-15) | 1-13-2016 10:55 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 012 | SCI-67A(0-3) | 11:05 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 013 | SCI-67B(15-20) | 11:25 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 014 | SCI-67D(15-20) | 11:25 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 015 | SCI-68A(0-3) | 12:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 016 | SCI-68B(15-20) | 12:25 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 017 | SCI-69A(0-3) | 12:40 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 018 | SCI-69B(15-20) | 12:55 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 019 | SCI-70A(0-3) | 13:05 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 020 | SCI-70B(15-20) | 13:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 1-13-2016 4:30 | | 1/13/16 4:30 |
| | 1/13/16 17:10 | M Ramirez | 1/13/16 17:10 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

# CHAIN OF CUSTODY

pg. 3 of 3 Work order # 1601 0697

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
**Preserved in:** ☐ LAB ☐ FIELD

**FOR LAB USE ONLY**

**Lab Notes**
*SCI-75A(0-3) does not need PCBs) per Ben Butterfield MAC 1/14/16

**Client Comments:**
Meet MRBCA DTLs

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1601 0697 021 | SCI-70D(15-20) | 1-13-2016 13:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 022 | SCI-71A(0-3) | 13:40 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 023 | SCI-71B(15-20) | 13:55 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 024 | TB-10 | 14:00 | | | | | | | | 2 | | X | | | | | | | | X |
| 025 | SCI-75A(0-3) | 14:20 | 2 | | | | | | | 3 | | | X | | | | X | -/ | X | X |
| 026 | SCI-75B(15-20)* | 14:35 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 027 | SCI-77A(0-3) | 14:50 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 028 | SCI-77B(15-20) | 15:10 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 029 | EB-6 | 15:45 | | | | | | | | 2 | ~~X~~ | X | | | | | | | | X |

TSC 1-13-2016

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 1-13-2016 16:30 | | 1/13/16 1730 |
| | 1/13/16 1710 | M. Kamunda | 1/13/16 17:10 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

# APPENDIX D

## Table 2 – Analytical Test Results of Detected Analytes - Groundwater

| Sample ID (date) / Chemical | | SVOCs | | | | | | | | | | | | | VOCs | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Acenaphthene** | **Anthracene** | **Benzo(a)anthracene** | **Benzo(a)pyrene** | **Benzo(b)fluoranthene** | **Benzo(k)fluoranthene** | **Chrysene** | **Dibenzo(a,h)anthracene** | **Fluoranthene** | **Fluorene** | **Pyrene** | **TPH-DRO (C10 - C21)** | **TPH-ORO (C21 - C35)** | **1,2,3-Trimethylbenzene** | **1,2,4-Trimethylbenzene** | **1,3,5-Trimethylbenzene** | **Chloroform** | **Ethylbenzene** | **Naphthalene** | **Tetrachloroethene** |
| SCI-2 (12/22/15) | | <0.004 | <0.0038 | <0.004 | <0.004 | <0.004 | <0.004 | <0.0039 | <0.004 | <0.0034 | <0.004 | <0.0035 | <2 | <2 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-5 (1/18/16) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | 0.00505 | <0.004 | <0.004 | <0.004 | <0.004 | 7.16 | 26.7 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-5D (1/18/16) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | **39.3** | **146** | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-8 (12/22/15) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <2 | <2 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-10 (1/18/16) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <20 | <16 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-10D (1/18/16) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <20 | **46.5** | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-13 (12/22/15) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <2 | <2 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-15 (12/22/15) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <2 | <2 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-20 (12/22/15) | | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-21 (12/22/15) | | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-22 (12/22/15) | | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | **<0.006** | <0.005 |
| SCI-23 12/22/15) | | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | **<0.0049** | <0.005 |
| SCI-26 (12/22/15) | | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-27 (1/18/16) | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-28 (1/18/16) | | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-31 (1/18/16) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <20 | 26.5 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-33 (1/18/16) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <20 | <15 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-37 (1/18/16) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <20 | <13 | <0.005 | <0.005 | <0.005 | <0.002 | <0.005 | <0.010 | <0.005 |
| SCI-41 (1/18/16) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <20 | **44.3** | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-41D (1/18/16) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <12 | 26.8 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| **Default Target Levels (DTLs)** | | **0.165** | **0.696** | **0.000103** | **0.0000102** | **0.0000627** | **0.000646** | **0.0103** | **0.00000421** | **0.164** | **0.103** | **0.0961** | **34.3** | **31.8** | **--[5]** | **0.00706** | **0.00705** | **0.0800** | **0.700** | **0.00109** | **0.005** |
| **Tier One, Soil Type 1, Residential[1]** | **Indoor Inhalation** | **1,610** | **2,290** | **110** | **37.3** | **7.65** | **937** | **81.7** | **985** | **14,200** | **3,010** | **17,300** | **117** | **--[5]** | **--[5]** | **0.775** | **0.556** | **0.280** | **103** | **2.25** | **0.338** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Indoor Inhalation** | **12,900** | **18,400** | **579** | **195** | **40.1** | **4,910** | **428** | **5,160** | **114,000** | **24,200** | **139,000** | **938** | **--[5]** | **--[5]** | **6.23** | **4.47** | **1.47** | **832** | **11.8** | **1.77** |
| **Tier One, Soil Type 1, Construction[3]** | **Outdoor Inhalation** | **791,000** | **1,820,000** | **656000** | **222,000** | **53900** | **5,530,000** | **560,000** | **5,800,000** | **5,320,000** | **1,230,000** | **6,360,000** | **242,000** | **--[5]** | **--[5]** | **2,690** | **2,090** | **13,400** | **373,000** | **4,820** | **22,800** |

Notes: All results are reported in mg/L or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed non-residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Not analyzed.
[5]Target levels not established for some constituents.

**Table 2 – Analytical Test Results of Detected Analytes - Groundwater (continued)**

| Sample ID (date) / Chemical | | SVOCs | | | | | | | | | | | | | VOCs | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Acenaphthene** | **Anthracene** | **Benzo(a)anthracene** | **Benzo(a)pyrene** | **Benzo(b)fluoranthene** | **Benzo(k)fluoranthene** | **Chrysene** | **Dibenzo(a,h)anthracene** | **Fluoranthene** | **Fluorene** | **Pyrene** | **TPH-DRO (C10 - C21)** | **TPH-ORO (C21 - C35)** | **1,2,3-Trimethylbenzene** | **1,2,4-Trimethylbenzene** | **1,3,5-Trimethylbenzene** | **Chloroform** | **Ethylbenzene** | **Naphthalene** | **Tetrachloroethene** |
| SCI-45 (1/18/16) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <16 | **180** | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-47 (1/18/16) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <13 | <16 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-50 (1/18/16) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <12 | <15 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-53 (1/18/16) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | 20 | <13 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-55 (1/18/16) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | 20 | <12 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-58 (1/19/16) | | 0.0062 | 0.0197 | **0.0625** | **0.0544** | **0.0432** | **0.0518** | **0.0625** | **0.0175** | 0.148 | 0.0059 | **0.125** | <1.5 | 3.24 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | **<0.0033** | <0.005 |
| SCI-64 (1/19/16) | | 0.066 | 0.102 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | 0.125 | <0.039 | **95.9** | <20 | 0.022 | **0.052** | **0.014** | <0.005 | 0.0062 | **0.053** | <0.005 |
| SCI-66 (1/19/16) | | <0.04 | 0.17 | **0.467** | **0.392** | **0.363** | **0.308** | **0.433** | **0.16** | **0.944** | 0.0499 | **0.801** | <14 | 30.7 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-68 (1/19/16) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <20 | 20.5 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | 0.023 |
| SCI-68D (1/19/16) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <20 | <14 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | 0.021 |
| SCI-71 (1/19/16) | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | 5.05 | <1.3 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| SCI-75 (1/19/16) | | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | NA[4] | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.010 | <0.005 |
| **Default Target Levels (DTLs)** | | **0.165** | **0.696** | **0.000103** | **0.0000102** | **0.0000627** | **0.000646** | **0.0103** | **0.00000421** | **0.164** | **0.103** | **0.0961** | **34.3** | **31.8** | **--[5]** | **0.00706** | **0.00705** | **0.0800** | **0.700** | **0.00109** | **0.005** |
| **Tier One, Soil Type 1, Residential[1]** | **Indoor Inhalation** | **1,610** | **2,290** | **110** | **37.3** | **7.65** | **937** | **81.7** | **985** | **14,200** | **3,010** | **17,300** | **117** | **--[5]** | **--[5]** | **0.775** | **0.556** | **0.280** | **103** | **2.25** | **0.338** |
| **Tier One, Soil Type 1, Non-Residential[2]** | **Indoor Inhalation** | **12,900** | **18,400** | **579** | **195** | **40.1** | **4,910** | **428** | **5,160** | **114,000** | **24,200** | **139,000** | **938** | **--[5]** | **--[5]** | **6.23** | **4.47** | **1.47** | **832** | **11.8** | **1.77** |
| **Tier One, Soil Type 1, Construction[3]** | **Outdoor** | **791,000** | **1,820,000** | **656000** | **222,000** | **53900** | **5,530,000** | **560,000** | **5,800,000** | **5,320,000** | **1,230,000** | **6,360,000** | **242,000** | **--[5]** | **--[5]** | **2,690** | **2,090** | **13,400** | **373,000** | **4,820** | **22,800** |

Notes: All results are reported in mg/L or parts per million.
Bold numbers exceed DTLs.
Shaded cells with bold numbers exceed non-residential RBTLs.
[1]Risk-Based Target Levels for Residential Land Use, Soil Type 1 (sandy).
[2]Risk-Based Target Levels for Non-Residential Land Use, Soil Type 1 (sandy).
[3]Risk-Based Target Levels for Construction Worker, Soil Type 1 (sandy).
[4]Not analyzed.
[5]Target levels not established for some constituents.

December 29, 2015

Ben Butterfield
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301
TEL: (618) 206-3028
FAX: (636) 949-8269

**RE:** NGA 2015-0461.21 **WorkOrder:** 15121578

Dear Ben Butterfield:

TEKLAB, INC received 11 samples on 12/22/2015 5:00:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Project Manager
(618)344-1004 ex 16
MAustin@teklabinc.com

# Report Contents



**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121578
**Report Date:** 29-Dec-15

**This reporting package includes the following:**


| | |
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| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 4 |
| Laboratory Results | 5 |
| Quality Control Results | 38 |
| Receiving Check List | 59 |
| Chain of Custody | Appended |

# Definitions

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## Abbr Definition

| | |
|---|---|
| CCV | Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration. |
| DF | Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors. |
| DNI | Did not ignite |
| DUP | Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. |
| ICV | Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated. |
| IDPH | IL Dept. of Public Health |
| LCS | Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request). |
| LCSD | Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MBLK | Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses. |
| MDL | Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. |
| MS | Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MSD | Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MW | Molecular weight |
| ND | Not Detected at the Reporting Limit |
| NELAP | NELAP Accredited |
| PQL | Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request). |
| RL | The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL. |
| RPD | Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request). |
| SPK | The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. |
| Surr | Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. |
| TIC | Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET" |
| TNTC | Too numerous to count ( > 200 CFU ) |

## Qualifiers

| | | | |
|---|---|---|---|
| # - | Unknown hydrocarbon | B - | Analyte detected in associated Method Blank |
| E - | Value above quantitation range | H - | Holding times exceeded |
| I - | Associated internal standard was outside method criteria | J - | Analyte detected below quantitation limits |
| M - | Manual Integration used to determine area response | ND - | Not Detected at the Reporting Limit |
| R - | RPD outside accepted recovery limits | S - | Spike Recovery outside recovery limits |
| T - | TIC(Tentatively identified compound) | X - | Value exceeds Maximum Contaminant Level |

# Case Narrative

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121578
**Report Date:** 29-Dec-15

**Cooler Receipt Temp:** 11.82 °C

## Locations and Accreditations

| | Collinsville | Springfield | Kansas City | Collinsville Air |
|---|---|---|---|---|
| Address | 5445 Horseshoe Lake Road | 3920 Pintail Dr | 8421 Nieman Road | 5445 Horseshoe Lake Road |
| | Collinsville, IL 62234-7425 | Springfield, IL 62711-9415 | Lenexa, KS 66214 | Collinsville, IL 62234-7425 |
| Phone | (618) 344-1004 | (217) 698-1004 | (913) 541-1998 | (618) 344-1004 |
| Fax | (618) 344-1005 | (217) 698-1005 | (913) 541-1998 | (618) 344-1005 |
| Email | jhriley@teklabinc.com | KKlostermann@teklabinc.com | dthompson@teklabinc.com | EHurley@teklabinc.com |

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|---|---|---|---|---|---|
| Illinois | IEPA | 100226 | NELAP | 1/31/2017 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 1/31/2016 | Collinsville |
| Louisiana | LDEQ | 166493 | NELAP | 6/30/2016 | Collinsville |
| Louisiana | LDEQ | 166578 | NELAP | 6/30/2016 | Collinsville |
| Texas | TCEQ | T104704515-12-1 | NELAP | 7/31/2016 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2016 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2017 | Collinsville |
| Kentucky | KDEP | 98006 | | 12/31/2015 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2016 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2017 | Collinsville |
| Oklahoma | ODEQ | 9978 | | 8/31/2016 | Collinsville |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-001
**Client Sample ID:** Trip Blank 1
**Matrix:** TRIP BLANK
**Collection Date:** 12/22/2015 17:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-001
**Client Sample ID:** Trip Blank 1
**Matrix:** TRIP BLANK
**Collection Date:** 12/22/2015 17:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-001
**Client Sample ID:** Trip Blank 1
**Matrix:** TRIP BLANK
**Collection Date:** 12/22/2015 17:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:31 | 115257 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **100.2** | %REC | 1 | 12/28/2015 14:31 | 115257 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **103.2** | %REC | 1 | 12/28/2015 14:31 | 115257 |
| Surr: Toluene-d8 | | 84.3-114 | | **104.9** | %REC | 1 | 12/28/2015 14:31 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-002
**Client Sample ID:** Equipment Blank 1
**Matrix:** AQUEOUS
**Collection Date:** 12/22/2015 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-002
**Client Sample ID:** Equipment Blank 1
**Matrix:** AQUEOUS
**Collection Date:** 12/22/2015 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Chloroform | NELAP | 5.0 | | **5.0** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Methylene chloride | NELAP | 5.0 | J | **1.3** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-002
**Client Sample ID:** Equipment Blank 1
**Matrix:** AQUEOUS
**Collection Date:** 12/22/2015 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:57 | 115257 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **99.9** | %REC | 1 | 12/28/2015 14:57 | 115257 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **103.4** | %REC | 1 | 12/28/2015 14:57 | 115257 |
| Surr: Toluene-d8 | | 84.3-114 | | **101.8** | %REC | 1 | 12/28/2015 14:57 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121578-003 **Client Sample ID:** SCI-2

**Matrix:** GROUNDWATER **Collection Date:** 12/22/2015 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 16:30 | 115184 |
| Anthracene | NELAP | 0.00400 | J | **0.0038** | mg/L | 1 | 12/23/2015 16:30 | 115184 |
| Benzo(a)anthracene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 16:30 | 115184 |
| Benzo(a)pyrene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 16:30 | 115184 |
| Benzo(b)fluoranthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 16:30 | 115184 |
| Benzo(k)fluoranthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 16:30 | 115184 |
| Chrysene | NELAP | 0.00400 | J | **0.0039** | mg/L | 1 | 12/23/2015 16:30 | 115184 |
| Dibenzo(a,h)anthracene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 16:30 | 115184 |
| Fluoranthene | NELAP | 0.00400 | J | **0.0034** | mg/L | 1 | 12/23/2015 16:30 | 115184 |
| Fluorene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 16:30 | 115184 |
| Pyrene | NELAP | 0.00400 | J | **0.0035** | mg/L | 1 | 12/23/2015 16:30 | 115184 |
| TPH-ORO (C21 - C35) | | 2.00 | | **ND** | mg/L | 1 | 12/23/2015 16:30 | 115184 |
| TPH-DRO (C10 - C21) | | 2.00 | | **ND** | mg/L | 1 | 12/23/2015 16:30 | 115184 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **64.8** | %REC | 1 | 12/23/2015 16:30 | 115184 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **83.3** | %REC | 1 | 12/23/2015 16:30 | 115184 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **75.0** | %REC | 1 | 12/23/2015 16:30 | 115184 |

*Elevated reporting limit due to sample composition.*

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-003
**Client Sample ID:** SCI-2
**Matrix:** GROUNDWATER
**Collection Date:** 12/22/2015 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-003
**Client Sample ID:** SCI-2
**Matrix:** GROUNDWATER
**Collection Date:** 12/22/2015 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:23 | 115257 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **100.1** | %REC | 1 | 12/28/2015 15:23 | 115257 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **102.5** | %REC | 1 | 12/28/2015 15:23 | 115257 |
| Surr: Toluene-d8 | | 84.3-114 | | **102.6** | %REC | 1 | 12/28/2015 15:23 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-004
**Client Sample ID:** SCI-8
**Matrix:** GROUNDWATER
**Collection Date:** 12/22/2015 9:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 17:05 | 115184 |
| Anthracene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 17:05 | 115184 |
| Benzo(a)anthracene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 17:05 | 115184 |
| Benzo(a)pyrene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 17:05 | 115184 |
| Benzo(b)fluoranthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 17:05 | 115184 |
| Benzo(k)fluoranthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 17:05 | 115184 |
| Chrysene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 17:05 | 115184 |
| Dibenzo(a,h)anthracene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 17:05 | 115184 |
| Fluoranthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 17:05 | 115184 |
| Fluorene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 17:05 | 115184 |
| Pyrene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 17:05 | 115184 |
| TPH-ORO (C21 - C35) | | 2.00 | | **ND** | mg/L | 1 | 12/23/2015 17:05 | 115184 |
| TPH-DRO (C10 - C21) | | 2.00 | | **ND** | mg/L | 1 | 12/23/2015 17:05 | 115184 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **66.3** | %REC | 1 | 12/23/2015 17:05 | 115184 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **79.9** | %REC | 1 | 12/23/2015 17:05 | 115184 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **92.5** | %REC | 1 | 12/23/2015 17:05 | 115184 |

*Elevated reporting limit due to sample composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-004
**Client Sample ID:** SCI-8
**Matrix:** GROUNDWATER
**Collection Date:** 12/22/2015 9:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 2-Chlorotoluene | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 2-Hexanone | NELAP | 25.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 2-Nitropropane | NELAP | 50.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 4-Chlorotoluene | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Acetone | NELAP | 25.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Acetonitrile | NELAP | 50.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Acrolein | NELAP | 100 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Acrylonitrile | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Allyl chloride | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Benzene | NELAP | 2.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Bromobenzene | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Bromochloromethane | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Bromodichloromethane | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Bromoform | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Bromomethane | NELAP | 10.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Carbon disulfide | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Carbon tetrachloride | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Chlorobenzene | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Chloroethane | NELAP | 10.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Chloroform | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Chloromethane | NELAP | 10.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Chloroprene | NELAP | 20.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Cyclohexanone | | 50.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Dibromochloromethane | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Dibromomethane | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Dichlorodifluoromethane | NELAP | 10.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Diisopropyl ether | | 2.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Ethyl acetate | NELAP | 10.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Ethyl ether | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Ethyl methacrylate | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Ethylbenzene | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Ethyl-tert-butyl ether | | 2.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Hexachlorobutadiene | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Hexachloroethane | NELAP | 10.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Iodomethane | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Isopropylbenzene | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| m,p-Xylenes | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Methacrylonitrile | NELAP | 10.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Methyl Methacrylate | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Methyl tert-butyl ether | NELAP | 2.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Methylacrylate | NELAP | 10.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Methylene chloride | NELAP | 5.0 | | ND | µg/L | 1 | 12/28/2015 15:49 | 115257 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-004
**Client Sample ID:** SCI-8
**Matrix:** GROUNDWATER
**Collection Date:** 12/22/2015 9:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 15:49 | 115257 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **100.0** | %REC | 1 | 12/28/2015 15:49 | 115257 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **99.8** | %REC | 1 | 12/28/2015 15:49 | 115257 |
| Surr: Toluene-d8 | | 84.3-114 | | **103.0** | %REC | 1 | 12/28/2015 15:49 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-005
**Client Sample ID:** SCI-13
**Matrix:** GROUNDWATER
**Collection Date:** 12/22/2015 10:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 18:50 | 115184 |
| Anthracene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 18:50 | 115184 |
| Benzo(a)anthracene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 18:50 | 115184 |
| Benzo(a)pyrene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 18:50 | 115184 |
| Benzo(b)fluoranthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 18:50 | 115184 |
| Benzo(k)fluoranthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 18:50 | 115184 |
| Chrysene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 18:50 | 115184 |
| Dibenzo(a,h)anthracene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 18:50 | 115184 |
| Fluoranthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 18:50 | 115184 |
| Fluorene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 18:50 | 115184 |
| Pyrene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 18:50 | 115184 |
| TPH-ORO (C21 - C35) | | 2.00 | | **ND** | mg/L | 1 | 12/23/2015 18:50 | 115184 |
| TPH-DRO (C10 - C21) | | 2.00 | | **ND** | mg/L | 1 | 12/23/2015 18:50 | 115184 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **59.5** | %REC | 1 | 12/23/2015 18:50 | 115184 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **78.0** | %REC | 1 | 12/23/2015 18:50 | 115184 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **79.0** | %REC | 1 | 12/23/2015 18:50 | 115184 |

*Elevated reporting limit due to sample composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-005
**Client Sample ID:** SCI-13
**Matrix:** GROUNDWATER
**Collection Date:** 12/22/2015 10:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Methylene chloride | NELAP | 5.0 | J | **1.0** | µg/L | 1 | 12/28/2015 16:15 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-005
**Client Sample ID:** SCI-13
**Matrix:** GROUNDWATER
**Collection Date:** 12/22/2015 10:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:15 | 115257 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **101.3** | %REC | 1 | 12/28/2015 16:15 | 115257 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **99.3** | %REC | 1 | 12/28/2015 16:15 | 115257 |
| Surr: Toluene-d8 | | 84.3-114 | | **102.6** | %REC | 1 | 12/28/2015 16:15 | 115257 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121578-006 **Client Sample ID:** SCI-15

**Matrix:** GROUNDWATER **Collection Date:** 12/22/2015 10:20

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 19:26 | 115184 |
| Anthracene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 19:26 | 115184 |
| Benzo(a)anthracene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 19:26 | 115184 |
| Benzo(a)pyrene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 19:26 | 115184 |
| Benzo(b)fluoranthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 19:26 | 115184 |
| Benzo(k)fluoranthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 19:26 | 115184 |
| Chrysene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 19:26 | 115184 |
| Dibenzo(a,h)anthracene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 19:26 | 115184 |
| Fluoranthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 19:26 | 115184 |
| Fluorene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 19:26 | 115184 |
| Pyrene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 12/23/2015 19:26 | 115184 |
| TPH-ORO (C21 - C35) | | 2.00 | | **ND** | mg/L | 1 | 12/23/2015 19:26 | 115184 |
| TPH-DRO (C10 - C21) | | 2.00 | | **ND** | mg/L | 1 | 12/23/2015 19:26 | 115184 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **67.7** | %REC | 1 | 12/23/2015 19:26 | 115184 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **83.5** | %REC | 1 | 12/23/2015 19:26 | 115184 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **77.5** | %REC | 1 | 12/23/2015 19:26 | 115184 |

*Elevated reporting limit due to sample composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-006
**Client Sample ID:** SCI-15
**Matrix:** GROUNDWATER
**Collection Date:** 12/22/2015 10:20

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Methylene chloride | NELAP | 5.0 | J | **1.0** | µg/L | 1 | 12/28/2015 16:41 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-006
**Client Sample ID:** SCI-15
**Matrix:** GROUNDWATER
**Collection Date:** 12/22/2015 10:20

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 16:41 | 115257 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **99.5** | %REC | 1 | 12/28/2015 16:41 | 115257 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **102.2** | %REC | 1 | 12/28/2015 16:41 | 115257 |
| Surr: Toluene-d8 | | 84.3-114 | | **102.0** | %REC | 1 | 12/28/2015 16:41 | 115257 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121578-007 **Client Sample ID:** SCI-20

**Matrix:** GROUNDWATER **Collection Date:** 12/22/2015 10:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121578-007 **Client Sample ID:** SCI-20

**Matrix:** GROUNDWATER **Collection Date:** 12/22/2015 10:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Methylene chloride | NELAP | 5.0 | J | **1.3** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-007
**Client Sample ID:** SCI-20
**Matrix:** GROUNDWATER
**Collection Date:** 12/22/2015 10:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:08 | 115257 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **100.0** | %REC | 1 | 12/28/2015 17:08 | 115257 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **100.4** | %REC | 1 | 12/28/2015 17:08 | 115257 |
| Surr: Toluene-d8 | | 84.3-114 | | **102.5** | %REC | 1 | 12/28/2015 17:08 | 115257 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121578-008 **Client Sample ID:** SCI-21

**Matrix:** GROUNDWATER **Collection Date:** 12/22/2015 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121578-008 **Client Sample ID:** SCI-21

**Matrix:** GROUNDWATER **Collection Date:** 12/22/2015 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Methylene chloride | NELAP | 5.0 | J | **1.1** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-008
**Client Sample ID:** SCI-21
**Matrix:** GROUNDWATER
**Collection Date:** 12/22/2015 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 17:34 | 115257 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **101.2** | %REC | 1 | 12/28/2015 17:34 | 115257 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **100.3** | %REC | 1 | 12/28/2015 17:34 | 115257 |
| Surr: Toluene-d8 | | 84.3-114 | | **101.7** | %REC | 1 | 12/28/2015 17:34 | 115257 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121578-009 **Client Sample ID:** SCI-22

**Matrix:** GROUNDWATER **Collection Date:** 12/22/2015 10:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121578-009 **Client Sample ID:** SCI-22

**Matrix:** GROUNDWATER **Collection Date:** 12/22/2015 10:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Naphthalene | NELAP | 10.0 | J | **6.0** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-009
**Client Sample ID:** SCI-22
**Matrix:** GROUNDWATER
**Collection Date:** 12/22/2015 10:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:00 | 115257 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **102.3** | %REC | 1 | 12/28/2015 18:00 | 115257 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **101.4** | %REC | 1 | 12/28/2015 18:00 | 115257 |
| Surr: Toluene-d8 | | 84.3-114 | | **101.9** | %REC | 1 | 12/28/2015 18:00 | 115257 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121578-010 **Client Sample ID:** SCI-23

**Matrix:** GROUNDWATER **Collection Date:** 12/22/2015 10:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Acetone | NELAP | 25.0 | J | **9.4** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121578-010 **Client Sample ID:** SCI-23

**Matrix:** GROUNDWATER **Collection Date:** 12/22/2015 10:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Naphthalene | NELAP | 10.0 | J | **4.9** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-010
**Client Sample ID:** SCI-23
**Matrix:** GROUNDWATER
**Collection Date:** 12/22/2015 10:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 18:26 | 115257 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **101.7** | %REC | 1 | 12/28/2015 18:26 | 115257 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **100.0** | %REC | 1 | 12/28/2015 18:26 | 115257 |
| Surr: Toluene-d8 | | 84.3-114 | | **102.8** | %REC | 1 | 12/28/2015 18:26 | 115257 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121578-011 **Client Sample ID:** SCI-26

**Matrix:** GROUNDWATER **Collection Date:** 12/22/2015 11:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

**Lab ID:** 15121578-011 **Client Sample ID:** SCI-26

**Matrix:** GROUNDWATER **Collection Date:** 12/22/2015 11:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121578
**Client Project:** NGA 2015-0461.21
**Report Date:** 29-Dec-15
**Lab ID:** 15121578-011
**Client Sample ID:** SCI-26
**Matrix:** GROUNDWATER
**Collection Date:** 12/22/2015 11:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/29/2015 13:30 | 115281 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **102.5** | %REC | 1 | 12/29/2015 13:30 | 115281 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **101.6** | %REC | 1 | 12/29/2015 13:30 | 115281 |
| Surr: Toluene-d8 | | 84.3-114 | | **96.8** | %REC | 1 | 12/29/2015 13:30 | 115281 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115184 **SampType:** MBLK Units **mg/L**

SampID: MBLK-115184

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.00100 | | **ND** | | | | | | 12/23/2015 |
| Anthracene | 0.00100 | | **ND** | | | | | | 12/23/2015 |
| Benzo(a)anthracene | 0.00100 | | **ND** | | | | | | 12/23/2015 |
| Benzo(a)pyrene | 0.00100 | | **ND** | | | | | | 12/23/2015 |
| Benzo(b)fluoranthene | 0.00100 | | **ND** | | | | | | 12/23/2015 |
| Benzo(k)fluoranthene | 0.00100 | | **ND** | | | | | | 12/23/2015 |
| Chrysene | 0.00100 | | **ND** | | | | | | 12/23/2015 |
| Dibenzo(a,h)anthracene | 0.00100 | | **ND** | | | | | | 12/23/2015 |
| Fluoranthene | 0.00100 | | **ND** | | | | | | 12/23/2015 |
| Fluorene | 0.00100 | | **ND** | | | | | | 12/23/2015 |
| Pyrene | 0.00100 | | **ND** | | | | | | 12/23/2015 |
| TPH-ORO (C21 - C35) | 0.500 | | **ND** | | | | | | 12/23/2015 |
| TPH-DRO (C10 - C21) | 0.500 | | **ND** | | | | | | 12/23/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.0111** | 0.01250 | | 88.9 | 10 | 175 | 12/23/2015 |
| Surr: Nitrobenzene-d5 | | | **0.0130** | 0.01250 | | 103.6 | 10 | 202 | 12/23/2015 |
| Surr: p-Terphenyl-d14 | | | **0.0126** | 0.01250 | | 100.5 | 10 | 201 | 12/23/2015 |

**Batch** 115184 **SampType:** LCS Units **mg/L**

SampID: LCS-115184

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.00100 | | **0.00921** | 0.01000 | 0 | 92.1 | 46.6 | 162 | 12/23/2015 |
| Anthracene | 0.00100 | | **0.00965** | 0.01000 | 0 | 96.5 | 50.9 | 161 | 12/23/2015 |
| Benzo(a)anthracene | 0.00100 | | **0.00928** | 0.01000 | 0 | 92.8 | 58.5 | 159 | 12/23/2015 |
| Benzo(a)pyrene | 0.00100 | | **0.00921** | 0.01000 | 0 | 92.1 | 60.1 | 153 | 12/23/2015 |
| Benzo(b)fluoranthene | 0.00100 | | **0.00872** | 0.01000 | 0 | 87.2 | 62.6 | 152 | 12/23/2015 |
| Benzo(k)fluoranthene | 0.00100 | | **0.00958** | 0.01000 | 0 | 95.8 | 59.9 | 153 | 12/23/2015 |
| Chrysene | 0.00100 | | **0.00904** | 0.01000 | 0 | 90.4 | 57.4 | 154 | 12/23/2015 |
| Dibenzo(a,h)anthracene | 0.00100 | | **0.00978** | 0.01000 | 0 | 97.8 | 57.1 | 152 | 12/23/2015 |
| Fluoranthene | 0.00100 | | **0.00869** | 0.01000 | 0 | 86.9 | 53.3 | 161 | 12/23/2015 |
| Fluorene | 0.00100 | | **0.00942** | 0.01000 | 0 | 94.2 | 50.2 | 159 | 12/23/2015 |
| Pyrene | 0.00100 | | **0.00862** | 0.01000 | 0 | 86.2 | 52.4 | 160 | 12/23/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.0124** | 0.01250 | | 99.3 | 10 | 175 | 12/23/2015 |
| Surr: Nitrobenzene-d5 | | | **0.0121** | 0.01250 | | 96.7 | 10 | 202 | 12/23/2015 |
| Surr: p-Terphenyl-d14 | | | **0.0127** | 0.01250 | | 101.4 | 10 | 201 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115184** **SampType: LCSD** Units **mg/L** RPD Limit **40**

SampID: LCSD-115184

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.00100 | | **0.00922** | 0.01000 | 0 | 92.2 | 0.009213 | 0.08 | 12/23/2015 |
| Anthracene | 0.00100 | | **0.00946** | 0.01000 | 0 | 94.6 | 0.009646 | 1.99 | 12/23/2015 |
| Benzo(a)anthracene | 0.00100 | | **0.00987** | 0.01000 | 0 | 98.7 | 0.009277 | 6.16 | 12/23/2015 |
| Benzo(a)pyrene | 0.00100 | | **0.0102** | 0.01000 | 0 | 101.7 | 0.009212 | 9.92 | 12/23/2015 |
| Benzo(b)fluoranthene | 0.00100 | | **0.0101** | 0.01000 | 0 | 100.7 | 0.008725 | 14.28 | 12/23/2015 |
| Benzo(k)fluoranthene | 0.00100 | | **0.0107** | 0.01000 | 0 | 106.6 | 0.009580 | 10.71 | 12/23/2015 |
| Chrysene | 0.00100 | | **0.00981** | 0.01000 | 0 | 98.1 | 0.009044 | 8.17 | 12/23/2015 |
| Dibenzo(a,h)anthracene | 0.00100 | | **0.0106** | 0.01000 | 0 | 106.0 | 0.009779 | 8.01 | 12/23/2015 |
| Fluoranthene | 0.00100 | | **0.00998** | 0.01000 | 0 | 99.8 | 0.008689 | 13.82 | 12/23/2015 |
| Fluorene | 0.00100 | | **0.00949** | 0.01000 | 0 | 94.9 | 0.009420 | 0.78 | 12/23/2015 |
| Pyrene | 0.00100 | | **0.0101** | 0.01000 | 0 | 100.9 | 0.008616 | 15.76 | 12/23/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.0102** | 0.01250 | | 81.6 | | | 12/23/2015 |
| Surr: Nitrobenzene-d5 | | | **0.0115** | 0.01250 | | 92.1 | | | 12/23/2015 |
| Surr: p-Terphenyl-d14 | | | **0.0131** | 0.01250 | | 104.7 | | | 12/23/2015 |

**Batch 115184** **SampType: LCSGD** Units **mg/L** RPD Limit **40**

SampID: LCSDG-115184

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 0.500 | | **1.54** | 2.000 | 0 | 76.9 | 1.509 | 1.90 | 12/23/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.0136** | 0.01250 | | 108.9 | | | 12/23/2015 |
| Surr: Nitrobenzene-d5 | | | **0.0132** | 0.01250 | | 105.8 | | | 12/23/2015 |
| Surr: p-Terphenyl-d14 | | | **0.0141** | 0.01250 | | 112.6 | | | 12/23/2015 |

**Batch 115184** **SampType: LCSG** Units **mg/L**

SampID: LCSG-115184

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 0.500 | | **1.51** | 2.000 | 0 | 75.4 | 50 | 175 | 12/23/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.0112** | 0.01250 | | 89.7 | 10 | 175 | 12/23/2015 |
| Surr: Nitrobenzene-d5 | | | **0.0105** | 0.01250 | | 84.4 | 10 | 202 | 12/23/2015 |
| Surr: p-Terphenyl-d14 | | | **0.0125** | 0.01250 | | 100.1 | 10 | 201 | 12/23/2015 |

**Batch 115184** **SampType: MS** Units **mg/L**

SampID: 15121578-004AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 2.00 | | **4.77** | 8.000 | 0 | 59.6 | 50 | 175 | 12/23/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.0407** | 0.05000 | | 81.4 | 10 | 178 | 12/23/2015 |
| Surr: Nitrobenzene-d5 | | | **0.0413** | 0.05000 | | 82.6 | 10 | 231 | 12/23/2015 |
| Surr: p-Terphenyl-d14 | | | **0.0406** | 0.05000 | | 81.2 | 10 | 220 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115184** **SampType:** **MSD** Units **mg/L** RPD Limit **40**

SampID: 15121578-004AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 2.00 | | **5.66** | 8.000 | 0 | 70.8 | 4.770 | 17.14 | 12/23/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.0398** | 0.05000 | | 79.6 | | | 12/23/2015 |
| Surr: Nitrobenzene-d5 | | | **0.0489** | 0.05000 | | 97.7 | | | 12/23/2015 |
| Surr: p-Terphenyl-d14 | | | **0.0436** | 0.05000 | | 87.2 | | | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115257** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Chloroethyl vinyl ether | 10.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/28/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/28/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/28/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/28/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Butyl acetate | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115257** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Chloromethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/28/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/28/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl acetate | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Methylene chloride | 5.0 | J | **1.5** | | | | | | 12/28/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/28/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/28/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/28/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/28/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/28/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/28/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115257** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.4** | 50.00 | | 100.9 | 72.2 | 131 | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **52.1** | 50.00 | | 104.1 | 82.1 | 116 | 12/28/2015 |
| Surr: Toluene-d8 | | | **52.6** | 50.00 | | 105.2 | 86 | 116 | 12/28/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121578

**Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115257** **SampType:** **LCS** Units **µg/L**

SampID: LCS-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 83.1 | 114 | 12/28/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 78.5 | 119 | 12/28/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **47.6** | 50.00 | 0 | 95.2 | 67.4 | 120 | 12/28/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 75.4 | 121 | 12/28/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **47.8** | 50.00 | 0 | 95.7 | 81.1 | 111 | 12/28/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **116** | 125.0 | 0 | 92.8 | 55.4 | 131 | 12/28/2015 |
| 1,1-Dichloroethane | 5.0 | | **46.7** | 50.00 | 0 | 93.4 | 80.1 | 116 | 12/28/2015 |
| 1,1-Dichloroethene | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 73.1 | 121 | 12/28/2015 |
| 1,1-Dichloropropene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 82.2 | 114 | 12/28/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 81.7 | 130 | 12/28/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **47.8** | 50.00 | 0 | 95.7 | 67.8 | 118 | 12/28/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 82.1 | 127 | 12/28/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **57.0** | 50.00 | 0 | 114.1 | 72.3 | 141 | 12/28/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **55.2** | 50.00 | 0 | 110.4 | 79.7 | 123 | 12/28/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.3** | 50.00 | 0 | 94.6 | 62.1 | 123 | 12/28/2015 |
| 1,2-Dibromoethane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 82.4 | 112 | 12/28/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 82.7 | 119 | 12/28/2015 |
| 1,2-Dichloroethane | 5.0 | | **46.6** | 50.00 | 0 | 93.1 | 72.8 | 120 | 12/28/2015 |
| 1,2-Dichloropropane | 5.0 | | **46.3** | 50.00 | 0 | 92.6 | 80 | 116 | 12/28/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 81.5 | 125 | 12/28/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 82 | 124 | 12/28/2015 |
| 1,3-Dichloropropane | 5.0 | | **48.4** | 50.00 | 0 | 96.9 | 79.8 | 113 | 12/28/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 81.1 | 124 | 12/28/2015 |
| 1-Chlorobutane | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 77.2 | 113 | 12/28/2015 |
| 2,2-Dichloropropane | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 76.6 | 121 | 12/28/2015 |
| 2-Butanone | 50.0 | | **125** | 125.0 | 0 | 99.7 | 62.8 | 131 | 12/28/2015 |
| 2-Chloroethyl vinyl ether | 10.0 | | **46.9** | 50.00 | 0 | 93.9 | 10 | 200 | 12/28/2015 |
| 2-Chlorotoluene | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 78.8 | 121 | 12/28/2015 |
| 2-Hexanone | 50.0 | | **130** | 125.0 | 0 | 103.7 | 63.1 | 125 | 12/28/2015 |
| 2-Nitropropane | 50.0 | | **509** | 500.0 | 0 | 101.7 | 61.2 | 129 | 12/28/2015 |
| 4-Chlorotoluene | 5.0 | | **54.9** | 50.00 | 0 | 109.9 | 77.6 | 124 | 12/28/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **119** | 125.0 | 0 | 95.1 | 60.6 | 126 | 12/28/2015 |
| Acetone | 50.0 | | **144** | 125.0 | 0 | 115.3 | 39.5 | 159 | 12/28/2015 |
| Acetonitrile | 100 | | **474** | 500.0 | 0 | 94.9 | 64.8 | 123 | 12/28/2015 |
| Acrolein | 100 | | **367** | 500.0 | 0 | 73.4 | 1 | 167 | 12/28/2015 |
| Acrylonitrile | 10.0 | | **43.8** | 50.00 | 0 | 87.6 | 67 | 124 | 12/28/2015 |
| Allyl chloride | 5.0 | | **46.1** | 50.00 | 0 | 92.1 | 58.5 | 129 | 12/28/2015 |
| Benzene | 1.0 | | **47.8** | 50.00 | 0 | 95.7 | 80.8 | 117 | 12/28/2015 |
| Bromobenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 79.6 | 117 | 12/28/2015 |
| Bromochloromethane | 5.0 | | **45.6** | 50.00 | 0 | 91.2 | 70.7 | 121 | 12/28/2015 |
| Bromodichloromethane | 5.0 | | **46.9** | 50.00 | 0 | 93.8 | 80.7 | 121 | 12/28/2015 |
| Bromoform | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 79.8 | 118 | 12/28/2015 |
| Bromomethane | 10.0 | | **46.0** | 50.00 | 0 | 92.1 | 1 | 175 | 12/28/2015 |
| Butyl acetate | 10.0 | | **45.9** | 50.00 | 0 | 91.8 | 1 | 200 | 12/28/2015 |
| Carbon disulfide | 5.0 | | **47.5** | 50.00 | 0 | 95.1 | 62.8 | 123 | 12/28/2015 |
| Carbon tetrachloride | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 77.6 | 123 | 12/28/2015 |
| Chlorobenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 85.6 | 116 | 12/28/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121578

**Client Project:** NGA 2015-0461.21

**Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115257** **SampType:** **LCS** Units **µg/L**

SampID: LCS-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroethane | 10.0 | | **46.7** | 50.00 | 0 | 93.4 | 60.2 | 125 | 12/28/2015 |
| Chloroform | 5.0 | | **47.0** | 50.00 | 0 | 93.9 | 77.9 | 116 | 12/28/2015 |
| Chloromethane | 10.0 | | **42.4** | 50.00 | 0 | 84.8 | 29.9 | 157 | 12/28/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 80.1 | 116 | 12/28/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **47.6** | 50.00 | 0 | 95.2 | 80.5 | 121 | 12/28/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 1 | 200 | 12/28/2015 |
| Cyclohexanone | 100 | | **473** | 500.0 | 0 | 94.6 | 45.4 | 128 | 12/28/2015 |
| Dibromochloromethane | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 84.3 | 116 | 12/28/2015 |
| Dibromomethane | 5.0 | | **45.6** | 50.00 | 0 | 91.1 | 76.6 | 115 | 12/28/2015 |
| Dichlorodifluoromethane | 10.0 | | **43.6** | 50.00 | 0 | 87.2 | 1 | 200 | 12/28/2015 |
| Diisopropyl ether | 5.0 | | **43.6** | 50.00 | 0 | 87.1 | 73.6 | 119 | 12/28/2015 |
| Ethyl acetate | 50.0 | J | **45** | 50.00 | 0 | 90.1 | 1 | 200 | 12/28/2015 |
| Ethyl ether | 5.0 | | **43.3** | 50.00 | 0 | 86.6 | 73.4 | 116 | 12/28/2015 |
| Ethyl methacrylate | 5.0 | | **49.2** | 50.00 | 0 | 98.3 | 76.2 | 120 | 12/28/2015 |
| Ethylbenzene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 84.8 | 116 | 12/28/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **43.8** | 50.00 | 0 | 87.5 | 73.8 | 119 | 12/28/2015 |
| Hexachlorobutadiene | 5.0 | | **56.3** | 50.00 | 0 | 112.6 | 74 | 135 | 12/28/2015 |
| Hexachloroethane | 5.0 | | **52.8** | 50.00 | 0 | 105.7 | 76.4 | 121 | 12/28/2015 |
| Iodomethane | 10.0 | | **49.3** | 50.00 | 0 | 98.6 | 38.7 | 161 | 12/28/2015 |
| Isopropylbenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 85 | 125 | 12/28/2015 |
| m,p-Xylenes | 5.0 | | **107** | 100.0 | 0 | 107.1 | 85.3 | 120 | 12/28/2015 |
| Methacrylonitrile | 50.0 | J | **45** | 50.00 | 0 | 89.3 | 65.7 | 120 | 12/28/2015 |
| Methyl Methacrylate | 5.0 | | **46.2** | 50.00 | 0 | 92.3 | 69.1 | 114 | 12/28/2015 |
| Methyl tert-butyl ether | 2.0 | | **43.3** | 50.00 | 0 | 86.6 | 66.6 | 125 | 12/28/2015 |
| Methylacrylate | 10.0 | | **47.4** | 50.00 | 0 | 94.9 | 69.7 | 121 | 12/28/2015 |
| Methylene chloride | 5.0 | | **48.0** | 50.00 | 0 | 95.9 | 73.4 | 115 | 12/28/2015 |
| Naphthalene | 10.0 | | **49.7** | 50.00 | 0 | 99.4 | 70.1 | 134 | 12/28/2015 |
| n-Butylbenzene | 5.0 | | **57.0** | 50.00 | 0 | 114.1 | 78.4 | 138 | 12/28/2015 |
| n-Heptane | 20.0 | | **52.1** | 50.00 | 0 | 104.3 | 74.3 | 125 | 12/28/2015 |
| n-Hexane | 20.0 | | **53.1** | 50.00 | 0 | 106.3 | 66.3 | 129 | 12/28/2015 |
| Nitrobenzene | 100 | | **555** | 500.0 | 0 | 111.0 | 20.1 | 165 | 12/28/2015 |
| n-Propylbenzene | 5.0 | | **55.4** | 50.00 | 0 | 110.7 | 79.1 | 125 | 12/28/2015 |
| o-Xylene | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 81.9 | 118 | 12/28/2015 |
| Pentachloroethane | 5.0 | | **56.3** | 50.00 | 0 | 112.7 | 72.7 | 123 | 12/28/2015 |
| p-Isopropyltoluene | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 82.7 | 129 | 12/28/2015 |
| Propionitrile | 50.0 | | **462** | 500.0 | 0 | 92.3 | 64.3 | 121 | 12/28/2015 |
| sec-Butylbenzene | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 81.3 | 125 | 12/28/2015 |
| Styrene | 5.0 | | **53.2** | 50.00 | 0 | 106.3 | 88.2 | 122 | 12/28/2015 |
| tert-Amyl methyl ether | 5.0 | | **43.8** | 50.00 | 0 | 87.5 | 74.5 | 120 | 12/28/2015 |
| tert-Butyl alcohol | 50.0 | | **223** | 250.0 | 0 | 89.2 | 51.3 | 129 | 12/28/2015 |
| tert-Butylbenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.3 | 74.8 | 125 | 12/28/2015 |
| Tetrachloroethene | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 84.2 | 122 | 12/28/2015 |
| Tetrahydrofuran | 50.0 | J | **44** | 50.00 | 0 | 87.4 | 61 | 118 | 12/28/2015 |
| Toluene | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 81.3 | 113 | 12/28/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 78.2 | 118 | 12/28/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **51.6** | 50.00 | 0 | 103.1 | 81.7 | 124 | 12/28/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 63.9 | 117 | 12/28/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121578

**Client Project:** NGA 2015-0461.21

**Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115257** **SampType:** **LCS** Units **µg/L**

SampID: LCS-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 81 | 123 | 12/28/2015 |
| Trichlorofluoromethane | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 66.8 | 131 | 12/28/2015 |
| Vinyl acetate | 50.0 | J | **47** | 50.00 | 0 | 93.3 | 64.3 | 122 | 12/28/2015 |
| Vinyl chloride | 2.0 | | **47.5** | 50.00 | 0 | 95.1 | 45.2 | 140 | 12/28/2015 |
| Xylenes, Total | 5.0 | | **159** | 150.0 | 0 | 106.1 | 85.3 | 118 | 12/28/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **96.0** | 100.0 | 0 | 96.0 | 80.1 | 116 | 12/28/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **99.2** | 100.0 | 0 | 99.2 | 80.5 | 121 | 12/28/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **98.2** | 100.0 | 0 | 98.2 | 63.9 | 117 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.6** | 50.00 | | 99.1 | 72.2 | 131 | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.4** | 50.00 | | 100.8 | 82.1 | 116 | 12/28/2015 |
| Surr: Toluene-d8 | | | **50.4** | 50.00 | | 100.8 | 86 | 116 | 12/28/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121578
**Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115257** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 50.29 | 3.99 | 12/28/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 48.52 | 4.18 | 12/28/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **52.6** | 50.00 | 0 | 105.1 | 47.58 | 9.97 | 12/28/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 50.62 | 3.09 | 12/28/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 47.85 | 8.58 | 12/28/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **131** | 125.0 | 0 | 104.9 | 116.0 | 12.27 | 12/28/2015 |
| 1,1-Dichloroethane | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 46.72 | 3.16 | 12/28/2015 |
| 1,1-Dichloroethene | 5.0 | | **48.4** | 50.00 | 0 | 96.9 | 48.22 | 0.43 | 12/28/2015 |
| 1,1-Dichloropropene | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 49.11 | 2.57 | 12/28/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **57.4** | 50.00 | 0 | 114.7 | 55.28 | 3.69 | 12/28/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **53.4** | 50.00 | 0 | 106.7 | 47.83 | 10.93 | 12/28/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **52.6** | 50.00 | 0 | 105.1 | 49.78 | 5.43 | 12/28/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **58.6** | 50.00 | 0 | 117.3 | 57.05 | 2.75 | 12/28/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **57.8** | 50.00 | 0 | 115.6 | 55.21 | 4.58 | 12/28/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 47.30 | 9.49 | 12/28/2015 |
| 1,2-Dibromoethane | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 47.10 | 7.72 | 12/28/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 52.89 | 3.77 | 12/28/2015 |
| 1,2-Dichloroethane | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 46.55 | 4.43 | 12/28/2015 |
| 1,2-Dichloropropane | 5.0 | | **48.2** | 50.00 | 0 | 96.5 | 46.30 | 4.12 | 12/28/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.5 | 52.51 | 5.99 | 12/28/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.7 | 54.38 | 2.63 | 12/28/2015 |
| 1,3-Dichloropropane | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 48.43 | 7.86 | 12/28/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 54.38 | 3.13 | 12/28/2015 |
| 1-Chlorobutane | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 48.19 | 2.64 | 12/28/2015 |
| 2,2-Dichloropropane | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 49.49 | 3.30 | 12/28/2015 |
| 2-Butanone | 50.0 | | **139** | 125.0 | 0 | 110.9 | 124.6 | 10.68 | 12/28/2015 |
| 2-Chloroethyl vinyl ether | 10.0 | | **50.2** | 50.00 | 0 | 100.3 | 46.93 | 6.63 | 12/28/2015 |
| 2-Chlorotoluene | 5.0 | | **56.9** | 50.00 | 0 | 113.8 | 54.08 | 5.08 | 12/28/2015 |
| 2-Hexanone | 50.0 | | **144** | 125.0 | 0 | 114.9 | 129.6 | 10.28 | 12/28/2015 |
| 2-Nitropropane | 50.0 | | **554** | 500.0 | 0 | 110.8 | 508.6 | 8.57 | 12/28/2015 |
| 4-Chlorotoluene | 5.0 | | **57.5** | 50.00 | 0 | 115.0 | 54.94 | 4.57 | 12/28/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **134** | 125.0 | 0 | 106.9 | 118.8 | 11.72 | 12/28/2015 |
| Acetone | 50.0 | | **156** | 125.0 | 0 | 124.5 | 144.1 | 7.67 | 12/28/2015 |
| Acetonitrile | 100 | | **488** | 500.0 | 0 | 97.6 | 474.4 | 2.80 | 12/28/2015 |
| Acrolein | 100 | | **411** | 500.0 | 0 | 82.3 | 366.9 | 11.43 | 12/28/2015 |
| Acrylonitrile | 10.0 | | **46.8** | 50.00 | 0 | 93.5 | 43.80 | 6.54 | 12/28/2015 |
| Allyl chloride | 5.0 | | **45.5** | 50.00 | 0 | 91.1 | 46.07 | 1.16 | 12/28/2015 |
| Benzene | 1.0 | | **49.7** | 50.00 | 0 | 99.3 | 47.83 | 3.75 | 12/28/2015 |
| Bromobenzene | 5.0 | | **53.5** | 50.00 | 0 | 107.1 | 49.69 | 7.46 | 12/28/2015 |
| Bromochloromethane | 5.0 | | **46.4** | 50.00 | 0 | 92.9 | 45.59 | 1.83 | 12/28/2015 |
| Bromodichloromethane | 5.0 | | **49.2** | 50.00 | 0 | 98.3 | 46.90 | 4.69 | 12/28/2015 |
| Bromoform | 5.0 | | **57.2** | 50.00 | 0 | 114.5 | 53.50 | 6.75 | 12/28/2015 |
| Bromomethane | 10.0 | | **45.5** | 50.00 | 0 | 91.1 | 46.04 | 1.09 | 12/28/2015 |
| Butyl acetate | 10.0 | | **50.2** | 50.00 | 0 | 100.4 | 45.92 | 8.87 | 12/28/2015 |
| Carbon disulfide | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 47.53 | 0.02 | 12/28/2015 |
| Carbon tetrachloride | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 50.37 | 3.84 | 12/28/2015 |
| Chlorobenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 52.18 | 3.82 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115257** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroethane | 10.0 | | **46.7** | 50.00 | 0 | 93.4 | 46.69 | 0.02 | 12/28/2015 |
| Chloroform | 5.0 | | **49.2** | 50.00 | 0 | 98.3 | 46.96 | 4.60 | 12/28/2015 |
| Chloromethane | 10.0 | | **41.2** | 50.00 | 0 | 82.4 | 42.41 | 2.89 | 12/28/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 47.51 | 2.47 | 12/28/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **49.3** | 50.00 | 0 | 98.7 | 47.59 | 3.59 | 12/28/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 48.66 | 6.44 | 12/28/2015 |
| Cyclohexanone | 100 | | **464** | 500.0 | 0 | 92.8 | 473.0 | 1.89 | 12/28/2015 |
| Dibromochloromethane | 5.0 | | **54.6** | 50.00 | 0 | 109.3 | 51.20 | 6.52 | 12/28/2015 |
| Dibromomethane | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 45.56 | 6.00 | 12/28/2015 |
| Dichlorodifluoromethane | 10.0 | | **41.9** | 50.00 | 0 | 83.8 | 43.60 | 3.98 | 12/28/2015 |
| Diisopropyl ether | 5.0 | | **45.9** | 50.00 | 0 | 91.8 | 43.57 | 5.25 | 12/28/2015 |
| Ethyl acetate | 50.0 | | **50.2** | 50.00 | 0 | 100.4 | 45.04 | 10.86 | 12/28/2015 |
| Ethyl ether | 5.0 | | **46.3** | 50.00 | 0 | 92.6 | 43.32 | 6.63 | 12/28/2015 |
| Ethyl methacrylate | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 49.17 | 9.10 | 12/28/2015 |
| Ethylbenzene | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 50.08 | 3.78 | 12/28/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **46.7** | 50.00 | 0 | 93.3 | 43.76 | 6.44 | 12/28/2015 |
| Hexachlorobutadiene | 5.0 | | **57.7** | 50.00 | 0 | 115.4 | 56.28 | 2.49 | 12/28/2015 |
| Hexachloroethane | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 52.84 | 4.89 | 12/28/2015 |
| Iodomethane | 10.0 | | **49.0** | 50.00 | 0 | 97.9 | 49.31 | 0.69 | 12/28/2015 |
| Isopropylbenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.7 | 51.21 | 2.20 | 12/28/2015 |
| m,p-Xylenes | 5.0 | | **110** | 100.0 | 0 | 109.8 | 107.1 | 2.51 | 12/28/2015 |
| Methacrylonitrile | 50.0 | J | **48** | 50.00 | 0 | 96.9 | 44.66 | 0.00 | 12/28/2015 |
| Methyl Methacrylate | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 46.17 | 6.74 | 12/28/2015 |
| Methyl tert-butyl ether | 2.0 | | **47.3** | 50.00 | 0 | 94.5 | 43.28 | 8.79 | 12/28/2015 |
| Methylacrylate | 10.0 | | **52.0** | 50.00 | 0 | 104.0 | 47.44 | 9.19 | 12/28/2015 |
| Methylene chloride | 5.0 | | **48.2** | 50.00 | 0 | 96.3 | 47.95 | 0.42 | 12/28/2015 |
| Naphthalene | 10.0 | | **54.1** | 50.00 | 0 | 108.2 | 49.70 | 8.50 | 12/28/2015 |
| n-Butylbenzene | 5.0 | | **58.2** | 50.00 | 0 | 116.5 | 57.05 | 2.05 | 12/28/2015 |
| n-Heptane | 20.0 | | **52.1** | 50.00 | 0 | 104.1 | 52.13 | 0.12 | 12/28/2015 |
| n-Hexane | 20.0 | | **53.0** | 50.00 | 0 | 105.9 | 53.13 | 0.32 | 12/28/2015 |
| Nitrobenzene | 100 | | **607** | 500.0 | 0 | 121.4 | 555.0 | 8.94 | 12/28/2015 |
| n-Propylbenzene | 5.0 | | **57.9** | 50.00 | 0 | 115.9 | 55.36 | 4.55 | 12/28/2015 |
| o-Xylene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 52.00 | 3.20 | 12/28/2015 |
| Pentachloroethane | 5.0 | | **59.1** | 50.00 | 0 | 118.1 | 56.33 | 4.75 | 12/28/2015 |
| p-Isopropyltoluene | 5.0 | | **55.2** | 50.00 | 0 | 110.5 | 53.89 | 2.47 | 12/28/2015 |
| Propionitrile | 50.0 | | **487** | 500.0 | 0 | 97.4 | 461.7 | 5.32 | 12/28/2015 |
| sec-Butylbenzene | 5.0 | | **55.5** | 50.00 | 0 | 111.1 | 52.94 | 4.78 | 12/28/2015 |
| Styrene | 5.0 | | **54.7** | 50.00 | 0 | 109.3 | 53.17 | 2.78 | 12/28/2015 |
| tert-Amyl methyl ether | 5.0 | | **47.2** | 50.00 | 0 | 94.3 | 43.76 | 7.50 | 12/28/2015 |
| tert-Butyl alcohol | 50.0 | | **245** | 250.0 | 0 | 98.0 | 223.1 | 9.36 | 12/28/2015 |
| tert-Butylbenzene | 5.0 | | **56.5** | 50.00 | 0 | 113.0 | 54.14 | 4.25 | 12/28/2015 |
| Tetrachloroethene | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 47.78 | 7.30 | 12/28/2015 |
| Tetrahydrofuran | 50.0 | J | **49** | 50.00 | 0 | 97.3 | 43.69 | 0.00 | 12/28/2015 |
| Toluene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 50.77 | 4.67 | 12/28/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 48.52 | 2.92 | 12/28/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **55.5** | 50.00 | 0 | 111.0 | 51.56 | 7.40 | 12/28/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 49.49 | 10.35 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115257** **SampType: LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 48.98 | 2.66 | 12/28/2015 |
| Trichlorofluoromethane | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 48.36 | 0.12 | 12/28/2015 |
| Vinyl acetate | 50.0 | | **51.5** | 50.00 | 0 | 103.0 | 46.63 | 9.96 | 12/28/2015 |
| Vinyl chloride | 2.0 | | **48.0** | 50.00 | 0 | 96.1 | 47.54 | 1.07 | 12/28/2015 |
| Xylenes, Total | 5.0 | | **164** | 150.0 | 0 | 109.0 | 159.1 | 2.73 | 12/28/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **98.7** | 100.0 | 0 | 98.7 | 96.03 | 2.70 | 12/28/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **105** | 100.0 | 0 | 104.8 | 99.15 | 5.59 | 12/28/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **107** | 100.0 | 0 | 106.8 | 98.15 | 8.43 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.0** | 50.00 | | 100.0 | | | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **51.1** | 50.00 | | 102.2 | | | 12/28/2015 |
| Surr: Toluene-d8 | | | **51.6** | 50.00 | | 103.2 | | | 12/28/2015 |

**Batch 115257** **SampType: LCSG** Units **µg/L**

SampID: LCSG-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1960** | 2000 | 0 | 98.1 | 70 | 130 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.2** | 50.00 | | 100.3 | 72.2 | 131 | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.7** | 50.00 | | 99.4 | 82.1 | 116 | 12/28/2015 |
| Surr: Toluene-d8 | | | **53.3** | 50.00 | | 106.6 | 86 | 116 | 12/28/2015 |

**Batch 115257** **SampType: LCSGD** Units **µg/L** RPD Limit **20**

SampID: LCSGD-A151228A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1980** | 2000 | 0 | 98.9 | 1962 | 0.83 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.4** | 50.00 | | 98.7 | | | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.4** | 50.00 | | 100.8 | | | 12/28/2015 |
| Surr: Toluene-d8 | | | **52.8** | 50.00 | | 105.7 | | | 12/28/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121578
**Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115281 **SampType:** MBLK Units **µg/L**

SampID: MBLK-A151229A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/29/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/29/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/29/2015 |
| 2-Chloroethyl vinyl ether | 10.0 | | **ND** | | | | | | 12/29/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/29/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/29/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/29/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/29/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/29/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/29/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/29/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/29/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/29/2015 |
| Butyl acetate | 10.0 | | **ND** | | | | | | 12/29/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/29/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115281** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-A151229A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroethane | 10.0 | | **ND** | | | | | | 12/29/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Chloromethane | 10.0 | | **ND** | | | | | | 12/29/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/29/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/29/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/29/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Ethyl acetate | 50.0 | | **ND** | | | | | | 12/29/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/29/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/29/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/29/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/29/2015 |
| Methylene chloride | 5.0 | J | **1.3** | | | | | | 12/29/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/29/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/29/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/29/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/29/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/29/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/29/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/29/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/29/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/29/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/29/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115281** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-A151229A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/29/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/29/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/29/2015 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 12/29/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 12/29/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/29/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **51.1** | 50.00 | | 102.1 | 72.2 | 131 | 12/29/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.4** | 50.00 | | 100.8 | 82.1 | 116 | 12/29/2015 |
| Surr: Toluene-d8 | | | **52.1** | 50.00 | | 104.2 | 86 | 116 | 12/29/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121578

**Client Project:** NGA 2015-0461.21

**Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115281** **SampType:** **LCS** Units **µg/L**

SampID: LCS-A151229A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 83.1 | 114 | 12/29/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 78.5 | 119 | 12/29/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 67.4 | 120 | 12/29/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **51.7** | 50.00 | 0 | 103.5 | 75.4 | 121 | 12/29/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 81.1 | 111 | 12/29/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **126** | 125.0 | 0 | 100.8 | 55.4 | 131 | 12/29/2015 |
| 1,1-Dichloroethane | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 80.1 | 116 | 12/29/2015 |
| 1,1-Dichloroethene | 5.0 | | **49.6** | 50.00 | 0 | 99.1 | 73.1 | 121 | 12/29/2015 |
| 1,1-Dichloropropene | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 82.2 | 114 | 12/29/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **56.7** | 50.00 | 0 | 113.4 | 81.7 | 130 | 12/29/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **49.8** | 50.00 | 0 | 99.6 | 67.8 | 118 | 12/29/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 82.1 | 127 | 12/29/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **59.6** | 50.00 | 0 | 119.2 | 72.3 | 141 | 12/29/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **57.1** | 50.00 | 0 | 114.2 | 79.7 | 123 | 12/29/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 62.1 | 123 | 12/29/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.2** | 50.00 | 0 | 96.5 | 82.4 | 112 | 12/29/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 82.7 | 119 | 12/29/2015 |
| 1,2-Dichloroethane | 5.0 | | **47.5** | 50.00 | 0 | 94.9 | 72.8 | 120 | 12/29/2015 |
| 1,2-Dichloropropane | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 80 | 116 | 12/29/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **54.5** | 50.00 | 0 | 108.9 | 81.5 | 125 | 12/29/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **56.6** | 50.00 | 0 | 113.2 | 82 | 124 | 12/29/2015 |
| 1,3-Dichloropropane | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 79.8 | 113 | 12/29/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **56.6** | 50.00 | 0 | 113.3 | 81.1 | 124 | 12/29/2015 |
| 1-Chlorobutane | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 77.2 | 113 | 12/29/2015 |
| 2,2-Dichloropropane | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 76.6 | 121 | 12/29/2015 |
| 2-Butanone | 50.0 | | **125** | 125.0 | 0 | 99.8 | 62.8 | 131 | 12/29/2015 |
| 2-Chloroethyl vinyl ether | 10.0 | | **51.2** | 50.00 | 0 | 102.4 | 10 | 200 | 12/29/2015 |
| 2-Chlorotoluene | 5.0 | | **55.7** | 50.00 | 0 | 111.4 | 78.8 | 121 | 12/29/2015 |
| 2-Hexanone | 50.0 | | **133** | 125.0 | 0 | 106.5 | 63.1 | 125 | 12/29/2015 |
| 2-Nitropropane | 50.0 | | **525** | 500.0 | 0 | 104.9 | 61.2 | 129 | 12/29/2015 |
| 4-Chlorotoluene | 5.0 | | **56.9** | 50.00 | 0 | 113.8 | 77.6 | 124 | 12/29/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **125** | 125.0 | 0 | 100.2 | 60.6 | 126 | 12/29/2015 |
| Acetone | 50.0 | | **144** | 125.0 | 0 | 115.4 | 39.5 | 159 | 12/29/2015 |
| Acetonitrile | 100 | | **494** | 500.0 | 0 | 98.9 | 64.8 | 123 | 12/29/2015 |
| Acrolein | 100 | | **468** | 500.0 | 0 | 93.7 | 1 | 167 | 12/29/2015 |
| Acrylonitrile | 10.0 | | **45.6** | 50.00 | 0 | 91.1 | 67 | 124 | 12/29/2015 |
| Allyl chloride | 5.0 | | **47.9** | 50.00 | 0 | 95.7 | 58.5 | 129 | 12/29/2015 |
| Benzene | 1.0 | | **49.3** | 50.00 | 0 | 98.5 | 80.8 | 117 | 12/29/2015 |
| Bromobenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 79.6 | 117 | 12/29/2015 |
| Bromochloromethane | 5.0 | | **47.5** | 50.00 | 0 | 95.1 | 70.7 | 121 | 12/29/2015 |
| Bromodichloromethane | 5.0 | | **47.7** | 50.00 | 0 | 95.3 | 80.7 | 121 | 12/29/2015 |
| Bromoform | 5.0 | | **55.5** | 50.00 | 0 | 110.9 | 79.8 | 118 | 12/29/2015 |
| Bromomethane | 10.0 | | **47.9** | 50.00 | 0 | 95.8 | 1 | 175 | 12/29/2015 |
| Butyl acetate | 10.0 | | **48.7** | 50.00 | 0 | 97.3 | 1 | 200 | 12/29/2015 |
| Carbon disulfide | 5.0 | | **48.5** | 50.00 | 0 | 97.1 | 62.8 | 123 | 12/29/2015 |
| Carbon tetrachloride | 5.0 | | **50.8** | 50.00 | 0 | 101.6 | 77.6 | 123 | 12/29/2015 |
| Chlorobenzene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 85.6 | 116 | 12/29/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121578

**Client Project:** NGA 2015-0461.21

**Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115281** **SampType:** **LCS** Units **µg/L**

SampID: LCS-A151229A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroethane | 10.0 | | **48.0** | 50.00 | 0 | 96.1 | 60.2 | 125 | 12/29/2015 |
| Chloroform | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 77.9 | 116 | 12/29/2015 |
| Chloromethane | 10.0 | | **41.8** | 50.00 | 0 | 83.7 | 29.9 | 157 | 12/29/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 80.1 | 116 | 12/29/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **48.4** | 50.00 | 0 | 96.7 | 80.5 | 121 | 12/29/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **52.8** | 50.00 | 0 | 105.7 | 1 | 200 | 12/29/2015 |
| Cyclohexanone | 100 | | **499** | 500.0 | 0 | 99.9 | 45.4 | 128 | 12/29/2015 |
| Dibromochloromethane | 5.0 | | **51.9** | 50.00 | 0 | 103.7 | 84.3 | 116 | 12/29/2015 |
| Dibromomethane | 5.0 | | **47.3** | 50.00 | 0 | 94.6 | 76.6 | 115 | 12/29/2015 |
| Dichlorodifluoromethane | 10.0 | | **37.6** | 50.00 | 0 | 75.2 | 1 | 200 | 12/29/2015 |
| Diisopropyl ether | 5.0 | | **45.4** | 50.00 | 0 | 90.7 | 73.6 | 119 | 12/29/2015 |
| Ethyl acetate | 50.0 | J | **48** | 50.00 | 0 | 95.7 | 1 | 200 | 12/29/2015 |
| Ethyl ether | 5.0 | | **44.6** | 50.00 | 0 | 89.2 | 73.4 | 116 | 12/29/2015 |
| Ethyl methacrylate | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 76.2 | 120 | 12/29/2015 |
| Ethylbenzene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 84.8 | 116 | 12/29/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **45.2** | 50.00 | 0 | 90.3 | 73.8 | 119 | 12/29/2015 |
| Hexachlorobutadiene | 5.0 | | **58.0** | 50.00 | 0 | 116.0 | 74 | 135 | 12/29/2015 |
| Hexachloroethane | 5.0 | | **55.0** | 50.00 | 0 | 109.9 | 76.4 | 121 | 12/29/2015 |
| Iodomethane | 10.0 | | **51.6** | 50.00 | 0 | 103.2 | 38.7 | 161 | 12/29/2015 |
| Isopropylbenzene | 5.0 | | **53.5** | 50.00 | 0 | 107.1 | 85 | 125 | 12/29/2015 |
| m,p-Xylenes | 5.0 | | **113** | 100.0 | 0 | 112.6 | 85.3 | 120 | 12/29/2015 |
| Methacrylonitrile | 50.0 | J | **48** | 50.00 | 0 | 95.5 | 65.7 | 120 | 12/29/2015 |
| Methyl Methacrylate | 5.0 | | **47.2** | 50.00 | 0 | 94.4 | 69.1 | 114 | 12/29/2015 |
| Methyl tert-butyl ether | 2.0 | | **44.6** | 50.00 | 0 | 89.2 | 66.6 | 125 | 12/29/2015 |
| Methylacrylate | 10.0 | | **49.5** | 50.00 | 0 | 99.0 | 69.7 | 121 | 12/29/2015 |
| Methylene chloride | 5.0 | | **49.0** | 50.00 | 0 | 97.9 | 73.4 | 115 | 12/29/2015 |
| Naphthalene | 10.0 | | **52.2** | 50.00 | 0 | 104.4 | 70.1 | 134 | 12/29/2015 |
| n-Butylbenzene | 5.0 | | **60.2** | 50.00 | 0 | 120.5 | 78.4 | 138 | 12/29/2015 |
| n-Heptane | 20.0 | | **52.6** | 50.00 | 0 | 105.3 | 74.3 | 125 | 12/29/2015 |
| n-Hexane | 20.0 | | **53.0** | 50.00 | 0 | 105.9 | 66.3 | 129 | 12/29/2015 |
| Nitrobenzene | 100 | | **510** | 500.0 | 0 | 101.9 | 20.1 | 165 | 12/29/2015 |
| n-Propylbenzene | 5.0 | | **57.3** | 50.00 | 0 | 114.7 | 79.1 | 125 | 12/29/2015 |
| o-Xylene | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 81.9 | 118 | 12/29/2015 |
| Pentachloroethane | 5.0 | | **57.1** | 50.00 | 0 | 114.2 | 72.7 | 123 | 12/29/2015 |
| p-Isopropyltoluene | 5.0 | | **55.9** | 50.00 | 0 | 111.8 | 82.7 | 129 | 12/29/2015 |
| Propionitrile | 50.0 | | **487** | 500.0 | 0 | 97.4 | 64.3 | 121 | 12/29/2015 |
| sec-Butylbenzene | 5.0 | | **54.5** | 50.00 | 0 | 109.1 | 81.3 | 125 | 12/29/2015 |
| Styrene | 5.0 | | **55.6** | 50.00 | 0 | 111.1 | 88.2 | 122 | 12/29/2015 |
| tert-Amyl methyl ether | 5.0 | | **45.2** | 50.00 | 0 | 90.4 | 74.5 | 120 | 12/29/2015 |
| tert-Butyl alcohol | 50.0 | | **242** | 250.0 | 0 | 96.6 | 51.3 | 129 | 12/29/2015 |
| tert-Butylbenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.7 | 74.8 | 125 | 12/29/2015 |
| Tetrachloroethene | 5.0 | | **50.6** | 50.00 | 0 | 101.3 | 84.2 | 122 | 12/29/2015 |
| Tetrahydrofuran | 50.0 | J | **49** | 50.00 | 0 | 97.4 | 61 | 118 | 12/29/2015 |
| Toluene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 81.3 | 113 | 12/29/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 78.2 | 118 | 12/29/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.6** | 50.00 | 0 | 105.2 | 81.7 | 124 | 12/29/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 63.9 | 117 | 12/29/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121578

**Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115281** **SampType:** **LCS** Units **µg/L**

SampID: LCS-A151229A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 81 | 123 | 12/29/2015 |
| Trichlorofluoromethane | 5.0 | | **48.9** | 50.00 | 0 | 97.9 | 66.8 | 131 | 12/29/2015 |
| Vinyl acetate | 50.0 | | **50.4** | 50.00 | 0 | 100.8 | 64.3 | 122 | 12/29/2015 |
| Vinyl chloride | 2.0 | | **46.9** | 50.00 | 0 | 93.7 | 45.2 | 140 | 12/29/2015 |
| Xylenes, Total | 5.0 | | **168** | 150.0 | 0 | 111.7 | 85.3 | 118 | 12/29/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **98.4** | 100.0 | 0 | 98.4 | 80.1 | 116 | 12/29/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **101** | 100.0 | 0 | 101.0 | 80.5 | 121 | 12/29/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **105** | 100.0 | 0 | 104.7 | 63.9 | 117 | 12/29/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.9** | 50.00 | | 97.7 | 72.2 | 131 | 12/29/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.4** | 50.00 | | 98.9 | 82.1 | 116 | 12/29/2015 |
| Surr: Toluene-d8 | | | **50.6** | 50.00 | | 101.3 | 86 | 116 | 12/29/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121578
**Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115281** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-A151229A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.5** | 50.00 | 0 | 100.9 | 51.38 | 1.79 | 12/29/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **48.9** | 50.00 | 0 | 97.7 | 49.63 | 1.56 | 12/29/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 50.57 | 1.82 | 12/29/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 51.74 | 4.00 | 12/29/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **49.7** | 50.00 | 0 | 99.5 | 49.99 | 0.50 | 12/29/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **128** | 125.0 | 0 | 102.0 | 126.1 | 1.18 | 12/29/2015 |
| 1,1-Dichloroethane | 5.0 | | **47.5** | 50.00 | 0 | 95.1 | 48.08 | 1.15 | 12/29/2015 |
| 1,1-Dichloroethene | 5.0 | | **48.9** | 50.00 | 0 | 97.7 | 49.57 | 1.42 | 12/29/2015 |
| 1,1-Dichloropropene | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 50.83 | 2.35 | 12/29/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **56.0** | 50.00 | 0 | 112.0 | 56.71 | 1.24 | 12/29/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **50.7** | 50.00 | 0 | 101.5 | 49.80 | 1.85 | 12/29/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 51.76 | 2.11 | 12/29/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **57.7** | 50.00 | 0 | 115.3 | 59.59 | 3.27 | 12/29/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 57.08 | 2.79 | 12/29/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **51.1** | 50.00 | 0 | 102.3 | 49.40 | 3.46 | 12/29/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.8** | 50.00 | 0 | 97.7 | 48.25 | 1.22 | 12/29/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 55.80 | 3.20 | 12/29/2015 |
| 1,2-Dichloroethane | 5.0 | | **48.0** | 50.00 | 0 | 96.1 | 47.47 | 1.17 | 12/29/2015 |
| 1,2-Dichloropropane | 5.0 | | **47.9** | 50.00 | 0 | 95.9 | 48.01 | 0.17 | 12/29/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.3** | 50.00 | 0 | 104.5 | 54.47 | 4.12 | 12/29/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 56.58 | 2.29 | 12/29/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 50.08 | 1.21 | 12/29/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **55.2** | 50.00 | 0 | 110.5 | 56.63 | 2.47 | 12/29/2015 |
| 1-Chlorobutane | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 49.11 | 1.85 | 12/29/2015 |
| 2,2-Dichloropropane | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 50.12 | 0.26 | 12/29/2015 |
| 2-Butanone | 50.0 | | **126** | 125.0 | 0 | 100.7 | 124.7 | 0.96 | 12/29/2015 |
| 2-Chloroethyl vinyl ether | 10.0 | | **52.1** | 50.00 | 0 | 104.2 | 51.18 | 1.78 | 12/29/2015 |
| 2-Chlorotoluene | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 55.68 | 2.16 | 12/29/2015 |
| 2-Hexanone | 50.0 | | **132** | 125.0 | 0 | 105.5 | 133.2 | 0.98 | 12/29/2015 |
| 2-Nitropropane | 50.0 | | **546** | 500.0 | 0 | 109.1 | 524.5 | 3.93 | 12/29/2015 |
| 4-Chlorotoluene | 5.0 | | **55.4** | 50.00 | 0 | 110.8 | 56.89 | 2.62 | 12/29/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **130** | 125.0 | 0 | 103.8 | 125.3 | 3.46 | 12/29/2015 |
| Acetone | 50.0 | | **142** | 125.0 | 0 | 113.3 | 144.2 | 1.78 | 12/29/2015 |
| Acetonitrile | 100 | | **505** | 500.0 | 0 | 101.0 | 494.4 | 2.09 | 12/29/2015 |
| Acrolein | 100 | | **485** | 500.0 | 0 | 96.9 | 468.3 | 3.41 | 12/29/2015 |
| Acrylonitrile | 10.0 | | **47.7** | 50.00 | 0 | 95.3 | 45.56 | 4.51 | 12/29/2015 |
| Allyl chloride | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 47.86 | 0.76 | 12/29/2015 |
| Benzene | 1.0 | | **48.9** | 50.00 | 0 | 97.7 | 49.27 | 0.84 | 12/29/2015 |
| Bromobenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 51.49 | 0.08 | 12/29/2015 |
| Bromochloromethane | 5.0 | | **47.6** | 50.00 | 0 | 95.2 | 47.53 | 0.15 | 12/29/2015 |
| Bromodichloromethane | 5.0 | | **47.3** | 50.00 | 0 | 94.6 | 47.66 | 0.72 | 12/29/2015 |
| Bromoform | 5.0 | | **56.4** | 50.00 | 0 | 112.9 | 55.46 | 1.73 | 12/29/2015 |
| Bromomethane | 10.0 | | **47.0** | 50.00 | 0 | 94.1 | 47.92 | 1.85 | 12/29/2015 |
| Butyl acetate | 10.0 | | **49.2** | 50.00 | 0 | 98.3 | 48.66 | 1.04 | 12/29/2015 |
| Carbon disulfide | 5.0 | | **47.7** | 50.00 | 0 | 95.4 | 48.54 | 1.72 | 12/29/2015 |
| Carbon tetrachloride | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 50.80 | 0.37 | 12/29/2015 |
| Chlorobenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 54.32 | 1.86 | 12/29/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115281** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-A151229A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroethane | 10.0 | | **48.3** | 50.00 | 0 | 96.6 | 48.05 | 0.48 | 12/29/2015 |
| Chloroform | 5.0 | | **47.9** | 50.00 | 0 | 95.9 | 48.31 | 0.77 | 12/29/2015 |
| Chloromethane | 10.0 | | **41.0** | 50.00 | 0 | 82.1 | 41.85 | 1.98 | 12/29/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **48.6** | 50.00 | 0 | 97.1 | 48.77 | 0.43 | 12/29/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **48.3** | 50.00 | 0 | 96.6 | 48.35 | 0.08 | 12/29/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 52.84 | 0.09 | 12/29/2015 |
| Cyclohexanone | 100 | | **513** | 500.0 | 0 | 102.6 | 499.4 | 2.70 | 12/29/2015 |
| Dibromochloromethane | 5.0 | | **51.7** | 50.00 | 0 | 103.5 | 51.87 | 0.25 | 12/29/2015 |
| Dibromomethane | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 47.32 | 0.42 | 12/29/2015 |
| Dichlorodifluoromethane | 10.0 | | **35.5** | 50.00 | 0 | 71.0 | 37.61 | 5.77 | 12/29/2015 |
| Diisopropyl ether | 5.0 | | **45.3** | 50.00 | 0 | 90.7 | 45.35 | 0.02 | 12/29/2015 |
| Ethyl acetate | 50.0 | J | **48** | 50.00 | 0 | 96.8 | 47.83 | 0.00 | 12/29/2015 |
| Ethyl ether | 5.0 | | **44.8** | 50.00 | 0 | 89.6 | 44.60 | 0.43 | 12/29/2015 |
| Ethyl methacrylate | 5.0 | | **51.0** | 50.00 | 0 | 102.1 | 50.72 | 0.63 | 12/29/2015 |
| Ethylbenzene | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 52.89 | 3.01 | 12/29/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **45.8** | 50.00 | 0 | 91.5 | 45.15 | 1.32 | 12/29/2015 |
| Hexachlorobutadiene | 5.0 | | **56.6** | 50.00 | 0 | 113.2 | 58.00 | 2.46 | 12/29/2015 |
| Hexachloroethane | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 54.97 | 3.07 | 12/29/2015 |
| Iodomethane | 10.0 | | **50.7** | 50.00 | 0 | 101.3 | 51.59 | 1.82 | 12/29/2015 |
| Isopropylbenzene | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 53.54 | 2.34 | 12/29/2015 |
| m,p-Xylenes | 5.0 | | **110** | 100.0 | 0 | 110.0 | 112.6 | 2.34 | 12/29/2015 |
| Methacrylonitrile | 50.0 | J | **48** | 50.00 | 0 | 95.1 | 47.75 | 0.00 | 12/29/2015 |
| Methyl Methacrylate | 5.0 | | **48.6** | 50.00 | 0 | 97.1 | 47.19 | 2.86 | 12/29/2015 |
| Methyl tert-butyl ether | 2.0 | | **45.4** | 50.00 | 0 | 90.8 | 44.58 | 1.84 | 12/29/2015 |
| Methylacrylate | 10.0 | | **50.0** | 50.00 | 0 | 100.0 | 49.48 | 1.01 | 12/29/2015 |
| Methylene chloride | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 48.96 | 0.27 | 12/29/2015 |
| Naphthalene | 10.0 | | **52.9** | 50.00 | 0 | 105.8 | 52.22 | 1.31 | 12/29/2015 |
| n-Butylbenzene | 5.0 | | **57.2** | 50.00 | 0 | 114.5 | 60.23 | 5.11 | 12/29/2015 |
| n-Heptane | 20.0 | | **51.3** | 50.00 | 0 | 102.6 | 52.63 | 2.54 | 12/29/2015 |
| n-Hexane | 20.0 | | **51.1** | 50.00 | 0 | 102.2 | 52.96 | 3.61 | 12/29/2015 |
| Nitrobenzene | 100 | | **533** | 500.0 | 0 | 106.5 | 509.7 | 4.39 | 12/29/2015 |
| n-Propylbenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 57.34 | 2.74 | 12/29/2015 |
| o-Xylene | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 54.89 | 1.30 | 12/29/2015 |
| Pentachloroethane | 5.0 | | **56.7** | 50.00 | 0 | 113.4 | 57.11 | 0.76 | 12/29/2015 |
| p-Isopropyltoluene | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 55.91 | 2.57 | 12/29/2015 |
| Propionitrile | 50.0 | | **508** | 500.0 | 0 | 101.5 | 487.2 | 4.11 | 12/29/2015 |
| sec-Butylbenzene | 5.0 | | **53.1** | 50.00 | 0 | 106.3 | 54.53 | 2.60 | 12/29/2015 |
| Styrene | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 55.56 | 1.56 | 12/29/2015 |
| tert-Amyl methyl ether | 5.0 | | **46.2** | 50.00 | 0 | 92.5 | 45.21 | 2.25 | 12/29/2015 |
| tert-Butyl alcohol | 50.0 | | **255** | 250.0 | 0 | 101.9 | 241.5 | 5.37 | 12/29/2015 |
| tert-Butylbenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 55.85 | 2.96 | 12/29/2015 |
| Tetrachloroethene | 5.0 | | **48.6** | 50.00 | 0 | 97.3 | 50.65 | 4.03 | 12/29/2015 |
| Tetrahydrofuran | 50.0 | J | **48** | 50.00 | 0 | 96.1 | 48.72 | 0.00 | 12/29/2015 |
| Toluene | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 53.41 | 4.15 | 12/29/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **49.3** | 50.00 | 0 | 98.7 | 49.58 | 0.51 | 12/29/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.4** | 50.00 | 0 | 104.7 | 52.60 | 0.46 | 12/29/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 51.84 | 1.09 | 12/29/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121578

**Client Project:** NGA 2015-0461.21 **Report Date:** 29-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115281** **SampType: LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-A151229A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 5.0 | | **48.9** | 50.00 | 0 | 97.9 | 50.15 | 2.46 | 12/29/2015 |
| Trichlorofluoromethane | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 48.94 | 0.22 | 12/29/2015 |
| Vinyl acetate | 50.0 | | **50.7** | 50.00 | 0 | 101.4 | 50.39 | 0.61 | 12/29/2015 |
| Vinyl chloride | 2.0 | | **46.0** | 50.00 | 0 | 91.9 | 46.87 | 1.98 | 12/29/2015 |
| Xylenes, Total | 5.0 | | **164** | 150.0 | 0 | 109.5 | 167.5 | 2.00 | 12/29/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **97.9** | 100.0 | 0 | 97.9 | 98.35 | 0.47 | 12/29/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **101** | 100.0 | 0 | 100.7 | 101.0 | 0.28 | 12/29/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **105** | 100.0 | 0 | 105.2 | 104.7 | 0.50 | 12/29/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.9** | 50.00 | | 99.9 | | | 12/29/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.3** | 50.00 | | 98.7 | | | 12/29/2015 |
| Surr: Toluene-d8 | | | **50.0** | 50.00 | | 100.0 | | | 12/29/2015 |

**Batch 115281** **SampType: LCSG** Units **µg/L**

SampID: LCSG-A151229A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1820** | 2000 | 0 | 91.0 | 70 | 130 | 12/29/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.0** | 50.00 | | 100.0 | 72.2 | 131 | 12/29/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.2** | 50.00 | | 98.4 | 82.1 | 116 | 12/29/2015 |
| Surr: Toluene-d8 | | | **52.5** | 50.00 | | 105.0 | 86 | 116 | 12/29/2015 |

**Batch 115281** **SampType: LCSGD** Units **µg/L** RPD Limit **20**

SampID: LCSGD-A151229A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1910** | 2000 | 0 | 95.5 | 1821 | 4.73 | 12/29/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.3** | 50.00 | | 100.6 | | | 12/29/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.6** | 50.00 | | 99.3 | | | 12/29/2015 |
| Surr: Toluene-d8 | | | **52.6** | 50.00 | | 105.2 | | | 12/29/2015 |

# Receiving Check List

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121578
**Report Date:** 29-Dec-15

**Carrier:** Nick Harvey

**Received By:** MAK

**Completed by:** Kalyn Foecke
**On:** 23-Dec-15

**Reviewed by:** Elizabeth A. Hurley
**On:** 23-Dec-15

**Pages to follow:** Chain of custody 2 Extra pages included 0

| | | | | |
|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ | Temp °C **11.82** |
| Type of thermal preservation? | None ☐ | Ice ☑ | Blue Ice ☐ | Dry Ice ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | | |
| Chain of custody agrees with sample labels? | Yes ☐ | No ☑ | | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | | |
| Sample containers intact? | Yes ☑ | No ☐ | | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | | |
| All samples received within holding time? | Yes ☑ | No ☐ | | |
| Reported field parameters measured: | Field ☐ | Lab ☐ | NA ☑ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | | |

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

| | | | |
|---|---|---|---|
| Water – at least one vial per sample has zero headspace? | Yes ☑ | No ☐ | No VOA vials ☐ |
| Water - TOX containers have zero headspace? | Yes ☐ | No ☐ | No TOX containers ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | NA ☐ |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes ☐ | No ☐ | NA ☑ |

**Any No responses must be detailed below or on the COC.**

Trip Blank collection date and time will be reported as the received date and time (end of trip). KF 12/23/15

Containers were not provided for DRO/ORO/PAH analysis for Trip Blank 1 and Equipment Blank 1. Per Ben Butterfield, analyze only VOC/GRO 8260 for Trip blank 1 and Equipment Blank 1. KF 12/23/15

# CHAIN OF CUSTODY

pg. 1 of 2 Work order # 15121578

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** [X] ICE [ ] BLUE ICE [ ] NO ICE 11.62 °C
**Preserved in:** [ ] LAB [X] FIELD
**FOR LAB USE ONLY**
**Lab Notes**
zero headspace KF 12/23/15

**Client Comments:**
*Did not receive jar for SVOC

Are these samples known to be involved in litigation? If yes, a surcharge will apply [ ] Yes [X] No
Are these samples known to be hazardous? [ ] Yes [X] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. [ ] Yes [X] No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Doug Ell

**Results Requested**
[X] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other ____ [ ] 3 Day (50% Surcharge)

**Billing Instructions**
SCI

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | DRO/ORO/PAH 8270 | Total 8 RCRA Metals | VOC/GRO 8260 | Courier |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15121578-001 | TRIP BLANK 1 | 12/15/15 1245 | | | | | | | | 2 | X | | | | | | X | | X | |
| 002 | EQUIPMENT BLANK 1 | 12/22/15 1045 | | | | | | | | 2 | X | | | | | | X | | X | |
| 003 | SCI-2 | 0930 | | | | | | | | 3 | | | | | | X | X | | X | |
| 004 | SCI-8 | 0945 | | | | | | | | 3 | | | | | | X | X | | X | |
| 005 | SCI-13 | 1010 | | | | | | | | 3 | | | | | | X | X | | X | |
| 006 | SCI-15 | 1020 | | | | | | | | 3 | | | | | | X | X | | X | |
| 007 | SCI-20 | 1025 | | | | | | | | 2 | | | | | | X | | | X | |
| 008 | SCI-21 | 1030 | | | | | | | | 2 | | | | | | X | | | X | |
| 009 | SCI-22 | 1035 | | | | | | | | 2 | | | | | | X | | | X | |
| 010 | SCI-23 | 1055 | | | | | | | | 2 | | | | | | X | | | X | |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Doug Ell | 12/22/15 1325 | | 12/22/15 4:17 |
| | 12/22/15 5:00 | M. Kotowski | 12/22/15 5:00 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28652

KF 12/23/15

# CHAIN OF CUSTODY

pg. 2 of 2 Work order # 15121578

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**

**Client Comments:**

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☐ No
Are these samples known to be hazardous? ☐ Yes ☐ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**

**Results Requested**
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | DRO/ORO/PAH 8270 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15121578 011 | SCI-26 | 12/22/15 1110 | | | | | | | | 2 | | | | | | X | | | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| [signature] | 12/22/15 4:17 | [signature] | 12/22/15 4:17 |
| | 12/22/15 5:00 | M. Kanchanchi | 12/22/15 5:00 |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28652

January 25, 2016

Ben Butterfield
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301
TEL: (618) 206-3028
FAX: (636) 949-8269

**RE:** NGA 2015-0461.21 **WorkOrder:** 16011014

Dear Ben Butterfield:

TEKLAB, INC received 9 samples on 1/19/2016 3:30:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Project Manager
(618)344-1004 ex 16
MAustin@teklabinc.com

# Report Contents



**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16011014
**Report Date:** 25-Jan-16

**This reporting package includes the following:**


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| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 4 |
| Laboratory Results | 5 |
| Quality Control Results | 32 |
| Receiving Check List | 54 |
| Chain of Custody | Appended |

# Definitions



**Client:** SCI Engineering, Inc. **Work Order:** 16011014

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## Abbr Definition

| | |
|---|---|
| CCV | Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration. |
| DF | Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors. |
| DNI | Did not ignite |
| DUP | Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. |
| ICV | Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated. |
| IDPH | IL Dept. of Public Health |
| LCS | Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request). |
| LCSD | Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MBLK | Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses. |
| MDL | Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. |
| MS | Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MSD | Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MW | Molecular weight |
| ND | Not Detected at the Reporting Limit |
| NELAP | NELAP Accredited |
| PQL | Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request). |
| RL | The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL. |
| RPD | Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request). |
| SPK | The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. |
| Surr | Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. |
| TIC | Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET" |
| TNTC | Too numerous to count ( > 200 CFU ) |

## Qualifiers

| | | | |
|---|---|---|---|
| # - | Unknown hydrocarbon | B - | Analyte detected in associated Method Blank |
| E - | Value above quantitation range | H - | Holding times exceeded |
| I - | Associated internal standard was outside method criteria | J - | Analyte detected below quantitation limits |
| M - | Manual Integration used to determine area response | ND - | Not Detected at the Reporting Limit |
| R - | RPD outside accepted recovery limits | S - | Spike Recovery outside recovery limits |
| T - | TIC(Tentatively identified compound) | X - | Value exceeds Maximum Contaminant Level |

# Case Narrative

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16011014

**Report Date:** 25-Jan-16

**Cooler Receipt Temp:** 3.62 °C

## Locations and Accreditations

| | Collinsville | Springfield | Kansas City | Collinsville Air |
|---|---|---|---|---|
| Address | 5445 Horseshoe Lake Road | 3920 Pintail Dr | 8421 Nieman Road | 5445 Horseshoe Lake Road |
| | Collinsville, IL 62234-7425 | Springfield, IL 62711-9415 | Lenexa, KS 66214 | Collinsville, IL 62234-7425 |
| Phone | (618) 344-1004 | (217) 698-1004 | (913) 541-1998 | (618) 344-1004 |
| Fax | (618) 344-1005 | (217) 698-1005 | (913) 541-1998 | (618) 344-1005 |
| Email | jhriley@teklabinc.com | KKlostermann@teklabinc.com | dthompson@teklabinc.com | EHurley@teklabinc.com |

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|---|---|---|---|---|---|
| Illinois | IEPA | 100226 | NELAP | 1/31/2017 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 1/31/2016 | Collinsville |
| Louisiana | LDEQ | 166493 | NELAP | 6/30/2016 | Collinsville |
| Louisiana | LDEQ | 166578 | NELAP | 6/30/2016 | Collinsville |
| Texas | TCEQ | T104704515-12-1 | NELAP | 7/31/2016 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2016 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2017 | Collinsville |
| Kentucky | KDEP | 98006 | | 12/31/2016 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2016 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2017 | Collinsville |
| Oklahoma | ODEQ | 9978 | | 8/31/2016 | Collinsville |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-001
**Client Sample ID:** Trip Blank 3
**Matrix:** TRIP BLANK
**Collection Date:** 01/19/2016 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-001
**Client Sample ID:** Trip Blank 3
**Matrix:** TRIP BLANK
**Collection Date:** 01/19/2016 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-001
**Client Sample ID:** Trip Blank 3
**Matrix:** TRIP BLANK
**Collection Date:** 01/19/2016 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 10:39 | 115776 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **91.5** | %REC | 1 | 01/20/2016 10:39 | 115776 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **101.2** | %REC | 1 | 01/20/2016 10:39 | 115776 |
| Surr: Toluene-d8 | | 84.3-114 | | **96.1** | %REC | 1 | 01/20/2016 10:39 | 115776 |

*LCSD recovered outside upper QC limits for styrene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-002
**Client Sample ID:** Equipment Blank 3
**Matrix:** AQUEOUS
**Collection Date:** 01/19/2016 10:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Acetone | NELAP | 25.0 | J | **21** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011014

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011014-002 **Client Sample ID:** Equipment Blank 3

**Matrix:** AQUEOUS **Collection Date:** 01/19/2016 10:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011014

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011014-002 **Client Sample ID:** Equipment Blank 3

**Matrix:** AQUEOUS **Collection Date:** 01/19/2016 10:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | J | **1.4** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:06 | 115776 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **94.4** | %REC | 1 | 01/20/2016 11:06 | 115776 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **104.0** | %REC | 1 | 01/20/2016 11:06 | 115776 |
| Surr: Toluene-d8 | | 84.3-114 | | **96.0** | %REC | 1 | 01/20/2016 11:06 | 115776 |

*LCSD recovered outside upper QC limits for styrene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16011014

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011014-003 **Client Sample ID:** SCI-58

**Matrix:** GROUNDWATER **Collection Date:** 01/19/2016 11:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.00400 | | **0.00620** | mg/L | 1 | 01/20/2016 12:54 | 115741 |
| Anthracene | NELAP | 0.00400 | | **0.0197** | mg/L | 1 | 01/20/2016 12:54 | 115741 |
| Benzo(a)anthracene | NELAP | 0.00400 | | **0.0625** | mg/L | 1 | 01/20/2016 12:54 | 115741 |
| Benzo(a)pyrene | NELAP | 0.00400 | | **0.0544** | mg/L | 1 | 01/20/2016 12:54 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.00400 | | **0.0432** | mg/L | 1 | 01/20/2016 12:54 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.00400 | | **0.0518** | mg/L | 1 | 01/20/2016 12:54 | 115741 |
| Chrysene | NELAP | 0.00400 | | **0.0625** | mg/L | 1 | 01/20/2016 12:54 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.00400 | | **0.0175** | mg/L | 1 | 01/20/2016 12:54 | 115741 |
| Fluoranthene | NELAP | 0.0400 | | **0.148** | mg/L | 10 | 01/21/2016 12:42 | 115741 |
| Fluorene | NELAP | 0.00400 | | **0.00590** | mg/L | 1 | 01/20/2016 12:54 | 115741 |
| Pyrene | NELAP | 0.0400 | | **0.125** | mg/L | 10 | 01/21/2016 12:42 | 115741 |
| TPH-ORO (C21 - C35) | | 2.00 | | **3.24** | mg/L | 1 | 01/20/2016 12:54 | 115741 |
| TPH-DRO (C10 - C21) | | 2.00 | J | **1.5** | mg/L | 1 | 01/20/2016 12:54 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **38.5** | %REC | 1 | 01/20/2016 12:54 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **67.0** | %REC | 1 | 01/20/2016 12:54 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **88.9** | %REC | 1 | 01/20/2016 12:54 | 115741 |

*Elevated reporting limit due to sample composition.*

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-003
**Client Sample ID:** SCI-58
**Matrix:** GROUNDWATER
**Collection Date:** 01/19/2016 11:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-003
**Client Sample ID:** SCI-58
**Matrix:** GROUNDWATER
**Collection Date:** 01/19/2016 11:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | J | **3.3** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 11:33 | 115776 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **94.4** | %REC | 1 | 01/20/2016 11:33 | 115776 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **100.1** | %REC | 1 | 01/20/2016 11:33 | 115776 |
| Surr: Toluene-d8 | | 84.3-114 | | **93.6** | %REC | 1 | 01/20/2016 11:33 | 115776 |

*LCSD recovered outside upper QC limits for styrene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-004
**Client Sample ID:** SCI-64
**Matrix:** GROUNDWATER
**Collection Date:** 01/19/2016 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **0.0660** | mg/L | 1 | 01/20/2016 13:28 | 115741 |
| Anthracene | NELAP | 0.0400 | | **0.102** | mg/L | 1 | 01/20/2016 13:28 | 115741 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 13:28 | 115741 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 13:28 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 13:28 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 13:28 | 115741 |
| Chrysene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 13:28 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 13:28 | 115741 |
| Fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 13:28 | 115741 |
| Fluorene | NELAP | 0.0400 | | **0.125** | mg/L | 1 | 01/20/2016 13:28 | 115741 |
| Pyrene | NELAP | 0.0400 | J | **0.039** | mg/L | 1 | 01/20/2016 13:28 | 115741 |
| TPH-ORO (C21 - C35) | | 20.0 | J | **20** | mg/L | 1 | 01/20/2016 13:28 | 115741 |
| TPH-DRO (C10 - C21) | | 20.0 | | **95.9** | mg/L | 1 | 01/20/2016 13:28 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **50.6** | %REC | 1 | 01/20/2016 13:28 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **63.6** | %REC | 1 | 01/20/2016 13:28 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **77.5** | %REC | 1 | 01/20/2016 13:28 | 115741 |

*Elevated reporting limit due to sample composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **22.1** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **51.5** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **13.5** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-004
**Client Sample ID:** SCI-64
**Matrix:** GROUNDWATER
**Collection Date:** 01/19/2016 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Benzene | NELAP | 2.0 | J | **0.6** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Ethylbenzene | NELAP | 5.0 | | **6.2** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Isopropylbenzene | NELAP | 5.0 | J | **1.6** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-004
**Client Sample ID:** SCI-64
**Matrix:** GROUNDWATER
**Collection Date:** 01/19/2016 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **52.9** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| n-Propylbenzene | NELAP | 5.0 | J | **4.2** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| o-Xylene | NELAP | 5.0 | J | **2.8** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| p-Isopropyltoluene | NELAP | 5.0 | J | **1.1** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Xylenes, Total | NELAP | 5.0 | J | **2.8** | µg/L | 1 | 01/21/2016 9:14 | 115777 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **97.4** | %REC | 1 | 01/21/2016 9:14 | 115777 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **95.3** | %REC | 1 | 01/21/2016 9:14 | 115777 |
| Surr: Toluene-d8 | | 84.3-114 | | **93.6** | %REC | 1 | 01/21/2016 9:14 | 115777 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-005
**Client Sample ID:** SCI-66
**Matrix:** GROUNDWATER
**Collection Date:** 01/19/2016 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | J | **0.040** | mg/L | 1 | 01/20/2016 14:01 | 115741 |
| Anthracene | NELAP | 0.0400 | | **0.170** | mg/L | 1 | 01/20/2016 14:01 | 115741 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **0.467** | mg/L | 1 | 01/20/2016 14:01 | 115741 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **0.392** | mg/L | 1 | 01/20/2016 14:01 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **0.363** | mg/L | 1 | 01/20/2016 14:01 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **0.308** | mg/L | 1 | 01/20/2016 14:01 | 115741 |
| Chrysene | NELAP | 0.0400 | | **0.433** | mg/L | 1 | 01/20/2016 14:01 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **0.160** | mg/L | 1 | 01/20/2016 14:01 | 115741 |
| Fluoranthene | NELAP | 0.0400 | | **0.944** | mg/L | 1 | 01/20/2016 14:01 | 115741 |
| Fluorene | NELAP | 0.0400 | | **0.0499** | mg/L | 1 | 01/20/2016 14:01 | 115741 |
| Pyrene | NELAP | 0.0400 | | **0.801** | mg/L | 1 | 01/20/2016 14:01 | 115741 |
| TPH-ORO (C21 - C35) | | 20.0 | | **30.7** | mg/L | 1 | 01/20/2016 14:01 | 115741 |
| TPH-DRO (C10 - C21) | | 20.0 | J | **14** | mg/L | 1 | 01/20/2016 14:01 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **29.9** | %REC | 1 | 01/20/2016 14:01 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **64.4** | %REC | 1 | 01/20/2016 14:01 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **83.3** | %REC | 1 | 01/20/2016 14:01 | 115741 |

*Elevated reporting limit due to sample composition.*

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-005
**Client Sample ID:** SCI-66
**Matrix:** GROUNDWATER
**Collection Date:** 01/19/2016 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-005
**Client Sample ID:** SCI-66
**Matrix:** GROUNDWATER
**Collection Date:** 01/19/2016 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:26 | 115776 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **96.3** | %REC | 1 | 01/20/2016 12:26 | 115776 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **101.8** | %REC | 1 | 01/20/2016 12:26 | 115776 |
| Surr: Toluene-d8 | | 84.3-114 | | **96.2** | %REC | 1 | 01/20/2016 12:26 | 115776 |

*LCSD recovered outside upper QC limits for styrene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16011014

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011014-006 **Client Sample ID:** SCI-68

**Matrix:** GROUNDWATER **Collection Date:** 01/19/2016 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 14:34 | 115741 |
| Anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 14:34 | 115741 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 14:34 | 115741 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 14:34 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 14:34 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 14:34 | 115741 |
| Chrysene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 14:34 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 14:34 | 115741 |
| Fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 14:34 | 115741 |
| Fluorene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 14:34 | 115741 |
| Pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 14:34 | 115741 |
| TPH-ORO (C21 - C35) | | 20.0 | | **20.5** | mg/L | 1 | 01/20/2016 14:34 | 115741 |
| TPH-DRO (C10 - C21) | | 20.0 | | **ND** | mg/L | 1 | 01/20/2016 14:34 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **18.6** | %REC | 1 | 01/20/2016 14:34 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **55.5** | %REC | 1 | 01/20/2016 14:34 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **74.9** | %REC | 1 | 01/20/2016 14:34 | 115741 |

*Elevated reporting limit due to sample composition.*

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-006
**Client Sample ID:** SCI-68
**Matrix:** GROUNDWATER
**Collection Date:** 01/19/2016 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-006
**Client Sample ID:** SCI-68
**Matrix:** GROUNDWATER
**Collection Date:** 01/19/2016 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Tetrachloroethene | NELAP | 5.0 | | **22.7** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 12:53 | 115776 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **97.4** | %REC | 1 | 01/20/2016 12:53 | 115776 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **101.2** | %REC | 1 | 01/20/2016 12:53 | 115776 |
| Surr: Toluene-d8 | | 84.3-114 | | **95.2** | %REC | 1 | 01/20/2016 12:53 | 115776 |

*LCSD recovered outside upper QC limits for styrene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-007
**Client Sample ID:** SCI-68D
**Matrix:** GROUNDWATER
**Collection Date:** 01/19/2016 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 15:08 | 115741 |
| Anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 15:08 | 115741 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 15:08 | 115741 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 15:08 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 15:08 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 15:08 | 115741 |
| Chrysene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 15:08 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 15:08 | 115741 |
| Fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 15:08 | 115741 |
| Fluorene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 15:08 | 115741 |
| Pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 15:08 | 115741 |
| TPH-ORO (C21 - C35) | | 20.0 | J | **14** | mg/L | 1 | 01/20/2016 15:08 | 115741 |
| TPH-DRO (C10 - C21) | | 20.0 | | **ND** | mg/L | 1 | 01/20/2016 15:08 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **18.3** | %REC | 1 | 01/20/2016 15:08 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **58.2** | %REC | 1 | 01/20/2016 15:08 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **79.7** | %REC | 1 | 01/20/2016 15:08 | 115741 |

*Elevated reporting limit due to sample composition.*

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-007
**Client Sample ID:** SCI-68D
**Matrix:** GROUNDWATER
**Collection Date:** 01/19/2016 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-007
**Client Sample ID:** SCI-68D
**Matrix:** GROUNDWATER
**Collection Date:** 01/19/2016 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Tetrachloroethene | NELAP | 5.0 | | **20.5** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:20 | 115776 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **98.1** | %REC | 1 | 01/20/2016 13:20 | 115776 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **100.8** | %REC | 1 | 01/20/2016 13:20 | 115776 |
| Surr: Toluene-d8 | | 84.3-114 | | **95.4** | %REC | 1 | 01/20/2016 13:20 | 115776 |

*LCSD recovered outside upper QC limits for styrene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-008
**Client Sample ID:** SCI-71
**Matrix:** GROUNDWATER
**Collection Date:** 01/19/2016 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/21/2016 11:02 | 115741 |
| Anthracene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/21/2016 11:02 | 115741 |
| Benzo(a)anthracene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/21/2016 11:02 | 115741 |
| Benzo(a)pyrene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/21/2016 11:02 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/21/2016 11:02 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/21/2016 11:02 | 115741 |
| Chrysene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/21/2016 11:02 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/21/2016 11:02 | 115741 |
| Fluoranthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/21/2016 11:02 | 115741 |
| Fluorene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/21/2016 11:02 | 115741 |
| Pyrene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/21/2016 11:02 | 115741 |
| TPH-ORO (C21 - C35) | | 2.00 | | **5.05** | mg/L | 1 | 01/21/2016 11:02 | 115741 |
| TPH-DRO (C10 - C21) | | 2.00 | J | **1.3** | mg/L | 1 | 01/21/2016 11:02 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **24.8** | %REC | 1 | 01/21/2016 11:02 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **67.0** | %REC | 1 | 01/21/2016 11:02 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **88.1** | %REC | 1 | 01/21/2016 11:02 | 115741 |

*Elevated reporting limit due to sample composition.*

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-008
**Client Sample ID:** SCI-71
**Matrix:** GROUNDWATER
**Collection Date:** 01/19/2016 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-008
**Client Sample ID:** SCI-71
**Matrix:** GROUNDWATER
**Collection Date:** 01/19/2016 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 13:47 | 115776 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **97.9** | %REC | 1 | 01/20/2016 13:47 | 115776 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **101.1** | %REC | 1 | 01/20/2016 13:47 | 115776 |
| Surr: Toluene-d8 | | 84.3-114 | | **95.5** | %REC | 1 | 01/20/2016 13:47 | 115776 |

*LCSD recovered outside upper QC limits for styrene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

**Client:** SCI Engineering, Inc. **Work Order:** 16011014

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011014-009 **Client Sample ID:** SCI-75

**Matrix:** GROUNDWATER **Collection Date:** 01/19/2016 11:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,1-Dichloroethene | NELAP | 5.0 | J | **3.1** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011014

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011014-009 **Client Sample ID:** SCI-75

**Matrix:** GROUNDWATER **Collection Date:** 01/19/2016 11:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011014
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011014-009
**Client Sample ID:** SCI-75
**Matrix:** GROUNDWATER
**Collection Date:** 01/19/2016 11:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:13 | 115776 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **98.5** | %REC | 1 | 01/20/2016 14:13 | 115776 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **101.2** | %REC | 1 | 01/20/2016 14:13 | 115776 |
| Surr: Toluene-d8 | | 84.3-114 | | **96.0** | %REC | 1 | 01/20/2016 14:13 | 115776 |

*LCSD recovered outside upper QC limits for styrene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

**Client:** SCI Engineering, Inc. **Work Order:** 16011014

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115741 **SampType:** MBLK Units **mg/L**

SampID: MBLK-115741

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Anthracene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Benzo(a)anthracene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Benzo(a)pyrene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Benzo(b)fluoranthene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Benzo(k)fluoranthene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Chrysene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Dibenzo(a,h)anthracene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Fluoranthene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Fluorene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Pyrene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| TPH-ORO (C21 - C35) | 0.500 | J | **0.36** | | | | | | 01/20/2016 |
| TPH-DRO (C10 - C21) | 0.500 | J | **0.33** | | | | | | 01/20/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.00402** | 0.01250 | | 32.2 | 10 | 175 | 01/20/2016 |
| Surr: Nitrobenzene-d5 | | | **0.0103** | 0.01250 | | 82.4 | 10 | 202 | 01/20/2016 |
| Surr: p-Terphenyl-d14 | | | **0.0136** | 0.01250 | | 108.9 | 10 | 201 | 01/20/2016 |

**Batch** 115741 **SampType:** LCS Units **mg/L**

SampID: LCS-115741

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.00100 | | **0.00768** | 0.01000 | 0 | 76.8 | 46.6 | 162 | 01/20/2016 |
| Anthracene | 0.00100 | | **0.00821** | 0.01000 | 0 | 82.1 | 50.9 | 161 | 01/20/2016 |
| Benzo(a)anthracene | 0.00100 | | **0.00790** | 0.01000 | 0 | 79.0 | 58.5 | 159 | 01/20/2016 |
| Benzo(a)pyrene | 0.00100 | | **0.00804** | 0.01000 | 0 | 80.4 | 60.1 | 153 | 01/20/2016 |
| Benzo(b)fluoranthene | 0.00100 | | **0.00784** | 0.01000 | 0 | 78.4 | 62.6 | 152 | 01/20/2016 |
| Benzo(k)fluoranthene | 0.00100 | | **0.00876** | 0.01000 | 0 | 87.6 | 59.9 | 153 | 01/20/2016 |
| Chrysene | 0.00100 | | **0.00815** | 0.01000 | 0 | 81.5 | 57.4 | 154 | 01/20/2016 |
| Dibenzo(a,h)anthracene | 0.00100 | | **0.00887** | 0.01000 | 0 | 88.7 | 57.1 | 152 | 01/20/2016 |
| Fluoranthene | 0.00100 | | **0.00871** | 0.01000 | 0 | 87.1 | 53.3 | 161 | 01/20/2016 |
| Fluorene | 0.00100 | | **0.00843** | 0.01000 | 0 | 84.3 | 50.2 | 159 | 01/20/2016 |
| Pyrene | 0.00100 | | **0.00859** | 0.01000 | 0 | 85.9 | 52.4 | 160 | 01/20/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.00927** | 0.01250 | | 74.1 | 10 | 175 | 01/20/2016 |
| Surr: Nitrobenzene-d5 | | | **0.0106** | 0.01250 | | 84.8 | 10 | 202 | 01/20/2016 |
| Surr: p-Terphenyl-d14 | | | **0.0126** | 0.01250 | | 100.8 | 10 | 201 | 01/20/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011014

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115741** **SampType: LCSD** Units **mg/L** RPD Limit **40**

SampID: LCSD-115741

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.00100 | | **0.00836** | 0.01000 | 0 | 83.6 | 0.007675 | 8.60 | 01/20/2016 |
| Anthracene | 0.00100 | | **0.00858** | 0.01000 | 0 | 85.8 | 0.008214 | 4.40 | 01/20/2016 |
| Benzo(a)anthracene | 0.00100 | | **0.00854** | 0.01000 | 0 | 85.4 | 0.007895 | 7.87 | 01/20/2016 |
| Benzo(a)pyrene | 0.00100 | | **0.00818** | 0.01000 | 0 | 81.8 | 0.008042 | 1.71 | 01/20/2016 |
| Benzo(b)fluoranthene | 0.00100 | | **0.00855** | 0.01000 | 0 | 85.5 | 0.007836 | 8.70 | 01/20/2016 |
| Benzo(k)fluoranthene | 0.00100 | | **0.00829** | 0.01000 | 0 | 82.9 | 0.008756 | 5.53 | 01/20/2016 |
| Chrysene | 0.00100 | | **0.00830** | 0.01000 | 0 | 83.0 | 0.008146 | 1.85 | 01/20/2016 |
| Dibenzo(a,h)anthracene | 0.00100 | | **0.00930** | 0.01000 | 0 | 93.0 | 0.008874 | 4.74 | 01/20/2016 |
| Fluoranthene | 0.00100 | | **0.00870** | 0.01000 | 0 | 87.0 | 0.008706 | 0.13 | 01/20/2016 |
| Fluorene | 0.00100 | | **0.00877** | 0.01000 | 0 | 87.7 | 0.008433 | 3.92 | 01/20/2016 |
| Pyrene | 0.00100 | | **0.00903** | 0.01000 | 0 | 90.3 | 0.008591 | 4.97 | 01/20/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.0101** | 0.01250 | | 81.1 | | | 01/20/2016 |
| Surr: Nitrobenzene-d5 | | | **0.0113** | 0.01250 | | 90.7 | | | 01/20/2016 |
| Surr: p-Terphenyl-d14 | | | **0.0126** | 0.01250 | | 101.2 | | | 01/20/2016 |

**Batch 115741** **SampType: LCSG** Units **mg/L**

SampID: LCSG-115741

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 0.500 | | **1.70** | 2.000 | 0 | 85.0 | 50 | 175 | 01/20/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.0100** | 0.01250 | | 80.3 | 10 | 175 | 01/20/2016 |
| Surr: Nitrobenzene-d5 | | | **0.0114** | 0.01250 | | 90.9 | 10 | 202 | 01/20/2016 |
| Surr: p-Terphenyl-d14 | | | **0.0122** | 0.01250 | | 97.9 | 10 | 201 | 01/20/2016 |

**Batch 115741** **SampType: LCSGD** Units **mg/L** RPD Limit **40**

SampID: LCSGD-115741

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 0.500 | | **1.74** | 2.000 | 0 | 86.8 | 1.700 | 2.10 | 01/20/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.0104** | 0.01250 | | 82.9 | | | 01/20/2016 |
| Surr: Nitrobenzene-d5 | | | **0.0122** | 0.01250 | | 97.7 | | | 01/20/2016 |
| Surr: p-Terphenyl-d14 | | | **0.0126** | 0.01250 | | 101.0 | | | 01/20/2016 |

**Batch 115741** **SampType: MS** Units **mg/L**

SampID: 16011014-008AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 2.00 | | **5.64** | 8.000 | 1.256 | 54.8 | 50 | 175 | 01/21/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.0394** | 0.05000 | | 78.8 | 10 | 178 | 01/21/2016 |
| Surr: Nitrobenzene-d5 | | | **0.0401** | 0.05000 | | 80.1 | 10 | 231 | 01/21/2016 |
| Surr: p-Terphenyl-d14 | | | **0.0469** | 0.05000 | | 93.7 | 10 | 220 | 01/21/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16011014
**Report Date:** 25-Jan-16

## SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115741** **SampType:** **MSD** Units **mg/L** RPD Limit **40**

SampID: 16011014-008AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 2.00 | | **5.59** | 8.000 | 1.256 | 54.1 | 5.644 | 1.03 | 01/21/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.0363** | 0.05000 | | 72.5 | | | 01/21/2016 |
| Surr: Nitrobenzene-d5 | | | **0.0377** | 0.05000 | | 75.4 | | | 01/21/2016 |
| Surr: p-Terphenyl-d14 | | | **0.0468** | 0.05000 | | 93.5 | | | 01/21/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011014

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115776** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **ND** | | | | | | 01/20/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/20/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 2-Butanone | 25.0 | | **ND** | | | | | | 01/20/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **ND** | | | | | | 01/20/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 2-Hexanone | 25.0 | | **ND** | | | | | | 01/20/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/20/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **ND** | | | | | | 01/20/2016 |
| Acetone | 25.0 | | **ND** | | | | | | 01/20/2016 |
| Acetonitrile | 50.0 | | **ND** | | | | | | 01/20/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/20/2016 |
| Acrylonitrile | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Benzene | 2.0 | | **ND** | | | | | | 01/20/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/20/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/20/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011014

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115776** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Chloromethane | 10.0 | | **ND** | | | | | | 01/20/2016 |
| Chloroprene | 20.0 | | **ND** | | | | | | 01/20/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Cyclohexanone | 50.0 | | **ND** | | | | | | 01/20/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/20/2016 |
| Diisopropyl ether | 2.0 | | **ND** | | | | | | 01/20/2016 |
| Ethyl acetate | 10.0 | | **ND** | | | | | | 01/20/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **ND** | | | | | | 01/20/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Hexachloroethane | 10.0 | | **ND** | | | | | | 01/20/2016 |
| Iodomethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Methacrylonitrile | 10.0 | | **ND** | | | | | | 01/20/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/20/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/20/2016 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/20/2016 |
| n-Butyl acetate | 25.0 | | **ND** | | | | | | 01/20/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/20/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/20/2016 |
| Nitrobenzene | 50.0 | | **ND** | | | | | | 01/20/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Pentachloroethane | 20.0 | | **ND** | | | | | | 01/20/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/20/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| tert-Amyl methyl ether | 2.0 | | **ND** | | | | | | 01/20/2016 |
| tert-Butyl alcohol | 25.0 | | **ND** | | | | | | 01/20/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Tetrahydrofuran | 20.0 | | **ND** | | | | | | 01/20/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/20/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011014

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115776** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **ND** | | | | | | 01/20/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Vinyl acetate | 10.0 | | **ND** | | | | | | 01/20/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/20/2016 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 01/20/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/20/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.4** | 50.00 | | 94.8 | 74.7 | 129 | 01/20/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.1** | 50.00 | | 100.2 | 86 | 119 | 01/20/2016 |
| Surr: Toluene-d8 | | | **47.1** | 50.00 | | 94.3 | 84.3 | 114 | 01/20/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16011014

**Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115776** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **55.9** | 50.00 | 0 | 111.8 | 50.14 | 10.86 | 01/20/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 49.57 | 4.46 | 01/20/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **52.7** | 50.00 | 0 | 105.3 | 46.33 | 12.79 | 01/20/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **51.6** | 50.00 | 0 | 103.2 | 49.19 | 4.74 | 01/20/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 44.48 | 17.85 | 01/20/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **124** | 125.0 | 0 | 99.6 | 107.8 | 14.38 | 01/20/2016 |
| 1,1-Dichloroethane | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 47.90 | 8.21 | 01/20/2016 |
| 1,1-Dichloroethene | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 47.66 | 3.77 | 01/20/2016 |
| 1,1-Dichloropropene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 49.71 | 7.72 | 01/20/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **56.5** | 50.00 | 0 | 113.0 | 48.90 | 14.46 | 01/20/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **49.3** | 50.00 | 0 | 98.7 | 45.02 | 9.14 | 01/20/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 48.50 | 10.19 | 01/20/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **54.8** | 50.00 | 0 | 109.7 | 48.04 | 13.24 | 01/20/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 49.63 | 12.22 | 01/20/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 46.12 | 11.00 | 01/20/2016 |
| 1,2-Dibromoethane | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 46.46 | 16.25 | 01/20/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **54.8** | 50.00 | 0 | 109.6 | 49.04 | 11.13 | 01/20/2016 |
| 1,2-Dichloroethane | 5.0 | | **48.8** | 50.00 | 0 | 97.7 | 46.63 | 4.63 | 01/20/2016 |
| 1,2-Dichloropropane | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 48.79 | 9.99 | 01/20/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **56.5** | 50.00 | 0 | 113.1 | 50.07 | 12.12 | 01/20/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **54.8** | 50.00 | 0 | 109.5 | 49.09 | 10.90 | 01/20/2016 |
| 1,3-Dichloropropane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 43.21 | 17.68 | 01/20/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 47.86 | 10.61 | 01/20/2016 |
| 1-Chlorobutane | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 47.50 | 6.87 | 01/20/2016 |
| 2,2-Dichloropropane | 5.0 | | **52.2** | 50.00 | 0 | 104.5 | 49.58 | 5.21 | 01/20/2016 |
| 2-Butanone | 25.0 | | **151** | 125.0 | 0 | 121.2 | 142.5 | 6.12 | 01/20/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **53.3** | 50.00 | 0 | 106.6 | 50.55 | 5.26 | 01/20/2016 |
| 2-Chlorotoluene | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 47.30 | 12.88 | 01/20/2016 |
| 2-Hexanone | 25.0 | | **137** | 125.0 | 0 | 109.2 | 121.3 | 11.80 | 01/20/2016 |
| 2-Nitropropane | 50.0 | | **550** | 500.0 | 0 | 110.0 | 539.9 | 1.88 | 01/20/2016 |
| 4-Chlorotoluene | 5.0 | | **53.5** | 50.00 | 0 | 107.1 | 47.77 | 11.39 | 01/20/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **127** | 125.0 | 0 | 101.9 | 111.1 | 13.66 | 01/20/2016 |
| Acetone | 25.0 | | **181** | 125.0 | 0 | 144.9 | 180.0 | 0.65 | 01/20/2016 |
| Acetonitrile | 50.0 | | **556** | 500.0 | 0 | 111.2 | 535.5 | 3.74 | 01/20/2016 |
| Acrolein | 100 | | **454** | 500.0 | 0 | 90.8 | 439.4 | 3.29 | 01/20/2016 |
| Acrylonitrile | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 49.57 | 4.50 | 01/20/2016 |
| Allyl chloride | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 49.95 | 6.86 | 01/20/2016 |
| Benzene | 2.0 | | **55.8** | 50.00 | 0 | 111.5 | 49.26 | 12.36 | 01/20/2016 |
| Bromobenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 46.27 | 9.25 | 01/20/2016 |
| Bromochloromethane | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 48.08 | 3.09 | 01/20/2016 |
| Bromodichloromethane | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 51.08 | 6.86 | 01/20/2016 |
| Bromoform | 5.0 | | **57.1** | 50.00 | 0 | 114.1 | 51.69 | 9.88 | 01/20/2016 |
| Bromomethane | 10.0 | | **44.5** | 50.00 | 0 | 89.0 | 44.44 | 0.16 | 01/20/2016 |
| Carbon disulfide | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 47.04 | 5.96 | 01/20/2016 |
| Carbon tetrachloride | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 50.62 | 8.13 | 01/20/2016 |
| Chlorobenzene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 48.40 | 8.92 | 01/20/2016 |
| Chloroethane | 10.0 | | **40.9** | 50.00 | 0 | 81.8 | 41.65 | 1.84 | 01/20/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16011014

**Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115776** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **49.4** | 50.00 | 0 | 98.7 | 48.08 | 2.61 | 01/20/2016 |
| Chloromethane | 10.0 | | **36.4** | 50.00 | 0 | 72.8 | 35.38 | 2.81 | 01/20/2016 |
| Chloroprene | 20.0 | | **47.0** | 50.00 | 0 | 94.1 | 45.41 | 3.53 | 01/20/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 48.09 | 7.27 | 01/20/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **58.0** | 50.00 | 0 | 116.1 | 53.46 | 8.22 | 01/20/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **44.7** | 50.00 | 0 | 89.5 | 40.31 | 10.42 | 01/20/2016 |
| Cyclohexanone | 50.0 | | **492** | 500.0 | 0 | 98.4 | 499.0 | 1.45 | 01/20/2016 |
| Dibromochloromethane | 5.0 | | **57.1** | 50.00 | 0 | 114.1 | 47.75 | 17.78 | 01/20/2016 |
| Dibromomethane | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 49.20 | 6.43 | 01/20/2016 |
| Dichlorodifluoromethane | 10.0 | | **33.9** | 50.00 | 0 | 67.9 | 32.98 | 2.84 | 01/20/2016 |
| Diisopropyl ether | 2.0 | | **53.3** | 50.00 | 0 | 106.6 | 51.25 | 3.88 | 01/20/2016 |
| Ethyl acetate | 10.0 | | **51.0** | 50.00 | 0 | 101.9 | 48.95 | 4.02 | 01/20/2016 |
| Ethyl ether | 5.0 | | **50.9** | 50.00 | 0 | 101.7 | 47.91 | 5.97 | 01/20/2016 |
| Ethyl methacrylate | 5.0 | | **54.8** | 50.00 | 0 | 109.6 | 45.51 | 18.56 | 01/20/2016 |
| Ethylbenzene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 47.51 | 9.20 | 01/20/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **52.9** | 50.00 | 0 | 105.8 | 50.38 | 4.88 | 01/20/2016 |
| Hexachlorobutadiene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 47.79 | 16.00 | 01/20/2016 |
| Hexachloroethane | 10.0 | | **53.5** | 50.00 | 0 | 107.1 | 46.66 | 13.73 | 01/20/2016 |
| Iodomethane | 5.0 | | **63.8** | 50.00 | 0 | 127.5 | 57.84 | 9.75 | 01/20/2016 |
| Isopropylbenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.7 | 49.76 | 11.50 | 01/20/2016 |
| m,p-Xylenes | 5.0 | | **105** | 100.0 | 0 | 105.1 | 96.25 | 8.79 | 01/20/2016 |
| Methacrylonitrile | 10.0 | | **51.0** | 50.00 | 0 | 101.9 | 48.14 | 5.71 | 01/20/2016 |
| Methyl Methacrylate | 5.0 | | **56.0** | 50.00 | 0 | 112.0 | 53.30 | 4.92 | 01/20/2016 |
| Methyl tert-butyl ether | 2.0 | | **52.9** | 50.00 | 0 | 105.8 | 50.49 | 4.64 | 01/20/2016 |
| Methylacrylate | 10.0 | | **55.8** | 50.00 | 0 | 111.6 | 54.02 | 3.26 | 01/20/2016 |
| Methylene chloride | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 47.24 | 5.36 | 01/20/2016 |
| Naphthalene | 10.0 | | **58.3** | 50.00 | 0 | 116.6 | 51.56 | 12.30 | 01/20/2016 |
| n-Butyl acetate | 25.0 | | **50.8** | 50.00 | 0 | 101.5 | 44.07 | 14.11 | 01/20/2016 |
| n-Butylbenzene | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 48.46 | 10.61 | 01/20/2016 |
| n-Heptane | 20.0 | | **52.8** | 50.00 | 0 | 105.5 | 49.38 | 6.64 | 01/20/2016 |
| n-Hexane | 20.0 | | **51.9** | 50.00 | 0 | 103.8 | 49.49 | 4.77 | 01/20/2016 |
| Nitrobenzene | 50.0 | | **503** | 500.0 | 0 | 100.6 | 448.5 | 11.49 | 01/20/2016 |
| n-Propylbenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 47.15 | 12.02 | 01/20/2016 |
| o-Xylene | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 47.74 | 10.31 | 01/20/2016 |
| Pentachloroethane | 20.0 | | **56.4** | 50.00 | 0 | 112.8 | 50.73 | 10.55 | 01/20/2016 |
| p-Isopropyltoluene | 5.0 | | **57.0** | 50.00 | 0 | 113.9 | 51.51 | 10.03 | 01/20/2016 |
| Propionitrile | 50.0 | | **541** | 500.0 | 0 | 108.2 | 515.5 | 4.84 | 01/20/2016 |
| sec-Butylbenzene | 5.0 | | **56.5** | 50.00 | 0 | 113.0 | 50.03 | 12.18 | 01/20/2016 |
| Styrene | 5.0 | S | **57.2** | 50.00 | 0 | 114.3 | 51.23 | 10.96 | 01/20/2016 |
| tert-Amyl methyl ether | 2.0 | | **56.0** | 50.00 | 0 | 112.0 | 51.37 | 8.62 | 01/20/2016 |
| tert-Butyl alcohol | 25.0 | | **282** | 250.0 | 0 | 112.9 | 272.8 | 3.44 | 01/20/2016 |
| tert-Butylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 46.20 | 11.12 | 01/20/2016 |
| Tetrachloroethene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 46.43 | 12.74 | 01/20/2016 |
| Tetrahydrofuran | 20.0 | | **52.9** | 50.00 | 0 | 105.8 | 51.07 | 3.52 | 01/20/2016 |
| Toluene | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 45.35 | 11.96 | 01/20/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **50.7** | 50.00 | 0 | 101.3 | 47.98 | 5.45 | 01/20/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **55.4** | 50.00 | 0 | 110.8 | 47.26 | 15.86 | 01/20/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16011014

**Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115776** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **49.6** | 50.00 | 0 | 99.1 | 44.23 | 11.39 | 01/20/2016 |
| Trichloroethene | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 49.65 | 7.67 | 01/20/2016 |
| Trichlorofluoromethane | 5.0 | | **51.9** | 50.00 | 0 | 103.7 | 48.51 | 6.69 | 01/20/2016 |
| Vinyl acetate | 10.0 | | **54.5** | 50.00 | 0 | 109.1 | 51.51 | 5.71 | 01/20/2016 |
| Vinyl chloride | 2.0 | | **43.0** | 50.00 | 0 | 86.0 | 41.82 | 2.76 | 01/20/2016 |
| Xylenes, Total | 5.0 | | **158** | 150.0 | 0 | 105.4 | 144.0 | 9.30 | 01/20/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **102** | 100.0 | 0 | 102.4 | 96.07 | 6.37 | 01/20/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **113** | 100.0 | 0 | 113.4 | 100.7 | 11.88 | 01/20/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **94.3** | 100.0 | 0 | 94.3 | 84.54 | 10.93 | 01/20/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **45.7** | 50.00 | | 91.4 | | | 01/20/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.6** | 50.00 | | 99.3 | | | 01/20/2016 |
| Surr: Toluene-d8 | | | **46.9** | 50.00 | | 93.8 | | | 01/20/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16011014

**Client Project:** NGA 2015-0461.21

**Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115776** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.1** | 50.00 | 0 | 100.3 | 81.9 | 115 | 01/20/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **49.6** | 50.00 | 0 | 99.1 | 79.4 | 124 | 01/20/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **46.3** | 50.00 | 0 | 92.7 | 74.7 | 116 | 01/20/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **49.2** | 50.00 | 0 | 98.4 | 72.9 | 121 | 01/20/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **44.5** | 50.00 | 0 | 89.0 | 80.8 | 111 | 01/20/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **108** | 125.0 | 0 | 86.2 | 66.3 | 130 | 01/20/2016 |
| 1,1-Dichloroethane | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 79.4 | 114 | 01/20/2016 |
| 1,1-Dichloroethene | 5.0 | | **47.7** | 50.00 | 0 | 95.3 | 74.1 | 117 | 01/20/2016 |
| 1,1-Dichloropropene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 81.7 | 116 | 01/20/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 79.7 | 118 | 01/20/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **45.0** | 50.00 | 0 | 90.0 | 77.3 | 112 | 01/20/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 79.9 | 119 | 01/20/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **48.0** | 50.00 | 0 | 96.1 | 79.3 | 118 | 01/20/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 78.7 | 115 | 01/20/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **46.1** | 50.00 | 0 | 92.2 | 76 | 122 | 01/20/2016 |
| 1,2-Dibromoethane | 5.0 | | **46.5** | 50.00 | 0 | 92.9 | 80.8 | 114 | 01/20/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 78.3 | 112 | 01/20/2016 |
| 1,2-Dichloroethane | 5.0 | | **46.6** | 50.00 | 0 | 93.3 | 70.6 | 118 | 01/20/2016 |
| 1,2-Dichloropropane | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 79.6 | 113 | 01/20/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.1** | 50.00 | 0 | 100.1 | 77.5 | 115 | 01/20/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 78.6 | 117 | 01/20/2016 |
| 1,3-Dichloropropane | 5.0 | | **43.2** | 50.00 | 0 | 86.4 | 78.8 | 112 | 01/20/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **47.9** | 50.00 | 0 | 95.7 | 77.8 | 114 | 01/20/2016 |
| 1-Chlorobutane | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 78.6 | 115 | 01/20/2016 |
| 2,2-Dichloropropane | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 74.9 | 130 | 01/20/2016 |
| 2-Butanone | 25.0 | | **142** | 125.0 | 0 | 114.0 | 70.7 | 136 | 01/20/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **50.6** | 50.00 | 0 | 101.1 | 52.5 | 145 | 01/20/2016 |
| 2-Chlorotoluene | 5.0 | | **47.3** | 50.00 | 0 | 94.6 | 77.4 | 114 | 01/20/2016 |
| 2-Hexanone | 25.0 | | **121** | 125.0 | 0 | 97.1 | 73.3 | 125 | 01/20/2016 |
| 2-Nitropropane | 50.0 | | **540** | 500.0 | 0 | 108.0 | 67.3 | 139 | 01/20/2016 |
| 4-Chlorotoluene | 5.0 | | **47.8** | 50.00 | 0 | 95.5 | 78.3 | 115 | 01/20/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **111** | 125.0 | 0 | 88.9 | 76.3 | 122 | 01/20/2016 |
| Acetone | 25.0 | | **180** | 125.0 | 0 | 144.0 | 56.4 | 147 | 01/20/2016 |
| Acetonitrile | 50.0 | | **535** | 500.0 | 0 | 107.1 | 59.3 | 129 | 01/20/2016 |
| Acrolein | 100 | | **439** | 500.0 | 0 | 87.9 | 1 | 201 | 01/20/2016 |
| Acrylonitrile | 5.0 | | **49.6** | 50.00 | 0 | 99.1 | 74.1 | 128 | 01/20/2016 |
| Allyl chloride | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 71.5 | 123 | 01/20/2016 |
| Benzene | 2.0 | | **49.3** | 50.00 | 0 | 98.5 | 80 | 114 | 01/20/2016 |
| Bromobenzene | 5.0 | | **46.3** | 50.00 | 0 | 92.5 | 73.2 | 118 | 01/20/2016 |
| Bromochloromethane | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 73.3 | 121 | 01/20/2016 |
| Bromodichloromethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 81.6 | 121 | 01/20/2016 |
| Bromoform | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 83.1 | 127 | 01/20/2016 |
| Bromomethane | 10.0 | | **44.4** | 50.00 | 0 | 88.9 | 44.4 | 154 | 01/20/2016 |
| Carbon disulfide | 5.0 | | **47.0** | 50.00 | 0 | 94.1 | 73.2 | 118 | 01/20/2016 |
| Carbon tetrachloride | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 79.4 | 130 | 01/20/2016 |
| Chlorobenzene | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 81.4 | 110 | 01/20/2016 |
| Chloroethane | 10.0 | | **41.6** | 50.00 | 0 | 83.3 | 52.1 | 137 | 01/20/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16011014

**Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115776** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 82.7 | 116 | 01/20/2016 |
| Chloromethane | 10.0 | | **35.4** | 50.00 | 0 | 70.8 | 48.2 | 144 | 01/20/2016 |
| Chloroprene | 20.0 | | **45.4** | 50.00 | 0 | 90.8 | 80.6 | 126 | 01/20/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 78.2 | 116 | 01/20/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **53.5** | 50.00 | 0 | 106.9 | 83 | 119 | 01/20/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **40.3** | 50.00 | 0 | 80.6 | 60.7 | 137 | 01/20/2016 |
| Cyclohexanone | 50.0 | | **499** | 500.0 | 0 | 99.8 | 54.2 | 145 | 01/20/2016 |
| Dibromochloromethane | 5.0 | | **47.8** | 50.00 | 0 | 95.5 | 81.2 | 121 | 01/20/2016 |
| Dibromomethane | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 78.3 | 118 | 01/20/2016 |
| Dichlorodifluoromethane | 10.0 | | **33.0** | 50.00 | 0 | 66.0 | 20.6 | 154 | 01/20/2016 |
| Diisopropyl ether | 2.0 | | **51.2** | 50.00 | 0 | 102.5 | 73.1 | 116 | 01/20/2016 |
| Ethyl acetate | 10.0 | | **49.0** | 50.00 | 0 | 97.9 | 73.1 | 116 | 01/20/2016 |
| Ethyl ether | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 75.2 | 109 | 01/20/2016 |
| Ethyl methacrylate | 5.0 | | **45.5** | 50.00 | 0 | 91.0 | 80.1 | 113 | 01/20/2016 |
| Ethylbenzene | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 77.2 | 113 | 01/20/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **50.4** | 50.00 | 0 | 100.8 | 75 | 118 | 01/20/2016 |
| Hexachlorobutadiene | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 77.3 | 123 | 01/20/2016 |
| Hexachloroethane | 10.0 | | **46.7** | 50.00 | 0 | 93.3 | 74.6 | 117 | 01/20/2016 |
| Iodomethane | 5.0 | | **57.8** | 50.00 | 0 | 115.7 | 61.3 | 140 | 01/20/2016 |
| Isopropylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 81.3 | 114 | 01/20/2016 |
| m,p-Xylenes | 5.0 | | **96.2** | 100.0 | 0 | 96.2 | 79.6 | 113 | 01/20/2016 |
| Methacrylonitrile | 10.0 | | **48.1** | 50.00 | 0 | 96.3 | 77.2 | 125 | 01/20/2016 |
| Methyl Methacrylate | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 74.2 | 121 | 01/20/2016 |
| Methyl tert-butyl ether | 2.0 | | **50.5** | 50.00 | 0 | 101.0 | 76.8 | 117 | 01/20/2016 |
| Methylacrylate | 10.0 | | **54.0** | 50.00 | 0 | 108.0 | 78 | 124 | 01/20/2016 |
| Methylene chloride | 5.0 | | **47.2** | 50.00 | 0 | 94.5 | 74.1 | 114 | 01/20/2016 |
| Naphthalene | 10.0 | | **51.6** | 50.00 | 0 | 103.1 | 77.9 | 122 | 01/20/2016 |
| n-Butyl acetate | 25.0 | | **44.1** | 50.00 | 0 | 88.1 | 74 | 120 | 01/20/2016 |
| n-Butylbenzene | 5.0 | | **48.5** | 50.00 | 0 | 96.9 | 71.1 | 120 | 01/20/2016 |
| n-Heptane | 20.0 | | **49.4** | 50.00 | 0 | 98.8 | 67.4 | 129 | 01/20/2016 |
| n-Hexane | 20.0 | | **49.5** | 50.00 | 0 | 99.0 | 68.4 | 126 | 01/20/2016 |
| Nitrobenzene | 50.0 | | **449** | 500.0 | 0 | 89.7 | 37.9 | 181 | 01/20/2016 |
| n-Propylbenzene | 5.0 | | **47.2** | 50.00 | 0 | 94.3 | 74.6 | 118 | 01/20/2016 |
| o-Xylene | 5.0 | | **47.7** | 50.00 | 0 | 95.5 | 80.1 | 111 | 01/20/2016 |
| Pentachloroethane | 20.0 | | **50.7** | 50.00 | 0 | 101.5 | 78.8 | 117 | 01/20/2016 |
| p-Isopropyltoluene | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 77.6 | 118 | 01/20/2016 |
| Propionitrile | 50.0 | | **515** | 500.0 | 0 | 103.1 | 72.9 | 137 | 01/20/2016 |
| sec-Butylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 74.5 | 119 | 01/20/2016 |
| Styrene | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 83.4 | 113 | 01/20/2016 |
| tert-Amyl methyl ether | 2.0 | | **51.4** | 50.00 | 0 | 102.7 | 78.7 | 117 | 01/20/2016 |
| tert-Butyl alcohol | 25.0 | | **273** | 250.0 | 0 | 109.1 | 58.1 | 139 | 01/20/2016 |
| tert-Butylbenzene | 5.0 | | **46.2** | 50.00 | 0 | 92.4 | 75.9 | 114 | 01/20/2016 |
| Tetrachloroethene | 5.0 | | **46.4** | 50.00 | 0 | 92.9 | 72.5 | 125 | 01/20/2016 |
| Tetrahydrofuran | 20.0 | | **51.1** | 50.00 | 0 | 102.1 | 69.6 | 125 | 01/20/2016 |
| Toluene | 5.0 | | **45.4** | 50.00 | 0 | 90.7 | 77.5 | 113 | 01/20/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 79 | 114 | 01/20/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **47.3** | 50.00 | 0 | 94.5 | 78 | 115 | 01/20/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011014

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115776 **SampType:** LCS Units **µg/L**

SampID: LCS-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **44.2** | 50.00 | 0 | 88.5 | 63.3 | 128 | 01/20/2016 |
| Trichloroethene | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 84.4 | 114 | 01/20/2016 |
| Trichlorofluoromethane | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 75.2 | 132 | 01/20/2016 |
| Vinyl acetate | 10.0 | | **51.5** | 50.00 | 0 | 103.0 | 64.5 | 127 | 01/20/2016 |
| Vinyl chloride | 2.0 | | **41.8** | 50.00 | 0 | 83.6 | 58 | 134 | 01/20/2016 |
| Xylenes, Total | 5.0 | | **144** | 150.0 | 0 | 96.0 | 80.1 | 111 | 01/20/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **96.1** | 100.0 | 0 | 96.1 | 78.2 | 116 | 01/20/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **101** | 100.0 | 0 | 100.7 | 78 | 119 | 01/20/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **84.5** | 100.0 | 0 | 84.5 | 60.7 | 137 | 01/20/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.3** | 50.00 | | 96.6 | 74.7 | 129 | 01/20/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.1** | 50.00 | | 98.2 | 86 | 119 | 01/20/2016 |
| Surr: Toluene-d8 | | | **45.8** | 50.00 | | 91.6 | 84.1 | 114 | 01/20/2016 |

**Batch** 115776 **SampType:** LCSGD Units **µg/L** RPD Limit **20**

SampID: LCSGD-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2270** | 2000 | 0 | 113.7 | 2062 | 9.75 | 01/20/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.5** | 50.00 | | 95.1 | | | 01/20/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.9** | 50.00 | | 99.7 | | | 01/20/2016 |
| Surr: Toluene-d8 | | | **47.4** | 50.00 | | 94.9 | | | 01/20/2016 |

**Batch** 115776 **SampType:** LCSG Units **µg/L**

SampID: LCSG-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2060** | 2000 | 0 | 103.1 | 70 | 130 | 01/20/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **46.1** | 50.00 | | 92.2 | 74.7 | 129 | 01/20/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.1** | 50.00 | | 100.2 | 86 | 119 | 01/20/2016 |
| Surr: Toluene-d8 | | | **47.3** | 50.00 | | 94.6 | 84.3 | 114 | 01/20/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011014

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115777** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **ND** | | | | | | 01/21/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/21/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 2-Butanone | 25.0 | | **ND** | | | | | | 01/21/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **ND** | | | | | | 01/21/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 2-Hexanone | 25.0 | | **ND** | | | | | | 01/21/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/21/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **ND** | | | | | | 01/21/2016 |
| Acetone | 25.0 | | **ND** | | | | | | 01/21/2016 |
| Acetonitrile | 50.0 | | **ND** | | | | | | 01/21/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/21/2016 |
| Acrylonitrile | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Benzene | 2.0 | | **ND** | | | | | | 01/21/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/21/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/21/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011014

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115777** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Chloromethane | 10.0 | | **ND** | | | | | | 01/21/2016 |
| Chloroprene | 20.0 | | **ND** | | | | | | 01/21/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Cyclohexanone | 50.0 | | **ND** | | | | | | 01/21/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/21/2016 |
| Diisopropyl ether | 2.0 | | **ND** | | | | | | 01/21/2016 |
| Ethyl acetate | 10.0 | | **ND** | | | | | | 01/21/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **ND** | | | | | | 01/21/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Hexachloroethane | 10.0 | | **ND** | | | | | | 01/21/2016 |
| Iodomethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Methacrylonitrile | 10.0 | | **ND** | | | | | | 01/21/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/21/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/21/2016 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/21/2016 |
| n-Butyl acetate | 25.0 | | **ND** | | | | | | 01/21/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/21/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/21/2016 |
| Nitrobenzene | 50.0 | | **ND** | | | | | | 01/21/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Pentachloroethane | 20.0 | | **ND** | | | | | | 01/21/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/21/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| tert-Amyl methyl ether | 2.0 | | **ND** | | | | | | 01/21/2016 |
| tert-Butyl alcohol | 25.0 | | **ND** | | | | | | 01/21/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Tetrahydrofuran | 20.0 | | **ND** | | | | | | 01/21/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/21/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011014

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115777** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **ND** | | | | | | 01/21/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Vinyl acetate | 10.0 | | **ND** | | | | | | 01/21/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/21/2016 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 01/21/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/21/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **45.7** | 50.00 | | 91.4 | 74.7 | 129 | 01/21/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.6** | 50.00 | | 99.3 | 86 | 119 | 01/21/2016 |
| Surr: Toluene-d8 | | | **45.9** | 50.00 | | 91.8 | 84.3 | 114 | 01/21/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16011014

**Client Project:** NGA 2015-0461.21

**Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115777** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 49.03 | 4.93 | 01/20/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **53.1** | 50.00 | 0 | 106.1 | 47.01 | 12.11 | 01/20/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 44.01 | 8.63 | 01/20/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **50.7** | 50.00 | 0 | 101.4 | 44.26 | 13.56 | 01/20/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 46.76 | 6.76 | 01/20/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **111** | 125.0 | 0 | 88.9 | 100.4 | 10.07 | 01/20/2016 |
| 1,1-Dichloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.3 | 46.21 | 9.17 | 01/20/2016 |
| 1,1-Dichloroethene | 5.0 | | **49.2** | 50.00 | 0 | 98.5 | 43.49 | 12.38 | 01/20/2016 |
| 1,1-Dichloropropene | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 47.23 | 10.23 | 01/20/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 46.42 | 10.63 | 01/20/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **46.7** | 50.00 | 0 | 93.4 | 41.19 | 12.58 | 01/20/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 46.26 | 9.96 | 01/20/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 45.03 | 14.98 | 01/20/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 47.50 | 11.41 | 01/20/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 42.22 | 14.66 | 01/20/2016 |
| 1,2-Dibromoethane | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 47.20 | 7.23 | 01/20/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 47.03 | 9.44 | 01/20/2016 |
| 1,2-Dichloroethane | 5.0 | | **46.7** | 50.00 | 0 | 93.5 | 45.96 | 1.68 | 01/20/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 47.51 | 8.33 | 01/20/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 47.52 | 11.63 | 01/20/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 46.19 | 9.11 | 01/20/2016 |
| 1,3-Dichloropropane | 5.0 | | **48.5** | 50.00 | 0 | 97.1 | 45.49 | 6.47 | 01/20/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 46.18 | 7.48 | 01/20/2016 |
| 1-Chlorobutane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 45.67 | 10.24 | 01/20/2016 |
| 2,2-Dichloropropane | 5.0 | | **40.2** | 50.00 | 0 | 80.4 | 47.77 | 17.16 | 01/20/2016 |
| 2-Butanone | 25.0 | | **128** | 125.0 | 0 | 102.6 | 132.6 | 3.30 | 01/20/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **54.3** | 50.00 | 0 | 108.6 | 48.51 | 11.30 | 01/20/2016 |
| 2-Chlorotoluene | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 45.96 | 8.30 | 01/20/2016 |
| 2-Hexanone | 25.0 | | **123** | 125.0 | 0 | 98.5 | 114.9 | 6.83 | 01/20/2016 |
| 2-Nitropropane | 50.0 | | **531** | 500.0 | 0 | 106.1 | 510.7 | 3.82 | 01/20/2016 |
| 4-Chlorotoluene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 45.61 | 10.16 | 01/20/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **120** | 125.0 | 0 | 96.0 | 106.2 | 12.20 | 01/20/2016 |
| Acetone | 25.0 | | **135** | 125.0 | 0 | 107.9 | 165.9 | 20.65 | 01/20/2016 |
| Acetonitrile | 50.0 | | **481** | 500.0 | 0 | 96.2 | 474.1 | 1.44 | 01/20/2016 |
| Acrolein | 100 | | **466** | 500.0 | 0 | 93.2 | 408.9 | 13.06 | 01/20/2016 |
| Acrylonitrile | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 47.13 | 5.75 | 01/20/2016 |
| Allyl chloride | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 46.58 | 9.08 | 01/20/2016 |
| Benzene | 2.0 | | **52.5** | 50.00 | 0 | 105.0 | 48.64 | 7.67 | 01/20/2016 |
| Bromobenzene | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 43.37 | 10.74 | 01/20/2016 |
| Bromochloromethane | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 46.93 | 5.71 | 01/20/2016 |
| Bromodichloromethane | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 50.75 | 3.56 | 01/20/2016 |
| Bromoform | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 48.81 | 7.11 | 01/20/2016 |
| Bromomethane | 10.0 | | **45.0** | 50.00 | 0 | 89.9 | 44.24 | 1.64 | 01/20/2016 |
| Carbon disulfide | 5.0 | | **48.1** | 50.00 | 0 | 96.3 | 43.05 | 11.14 | 01/20/2016 |
| Carbon tetrachloride | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 48.23 | 11.38 | 01/20/2016 |
| Chlorobenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 46.21 | 7.64 | 01/20/2016 |
| Chloroethane | 10.0 | | **42.3** | 50.00 | 0 | 84.7 | 40.92 | 3.41 | 01/20/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16011014

**Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115777** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **50.1** | 50.00 | 0 | 100.1 | 47.05 | 6.20 | 01/20/2016 |
| Chloromethane | 10.0 | | **37.4** | 50.00 | 0 | 74.7 | 36.32 | 2.82 | 01/20/2016 |
| Chloroprene | 20.0 | | **48.1** | 50.00 | 0 | 96.1 | 43.60 | 9.73 | 01/20/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 46.69 | 3.18 | 01/20/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **53.7** | 50.00 | 0 | 107.3 | 54.01 | 0.63 | 01/20/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **38.1** | 50.00 | 0 | 76.2 | 37.39 | 1.91 | 01/20/2016 |
| Cyclohexanone | 50.0 | | **454** | 500.0 | 0 | 90.8 | 384.4 | 16.63 | 01/20/2016 |
| Dibromochloromethane | 5.0 | | **53.5** | 50.00 | 0 | 107.1 | 49.64 | 7.54 | 01/20/2016 |
| Dibromomethane | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 48.00 | 2.89 | 01/20/2016 |
| Dichlorodifluoromethane | 10.0 | | **34.8** | 50.00 | 0 | 69.6 | 29.63 | 16.05 | 01/20/2016 |
| Diisopropyl ether | 2.0 | | **53.3** | 50.00 | 0 | 106.6 | 51.12 | 4.18 | 01/20/2016 |
| Ethyl acetate | 10.0 | | **49.8** | 50.00 | 0 | 99.7 | 45.30 | 9.52 | 01/20/2016 |
| Ethyl ether | 5.0 | | **47.7** | 50.00 | 0 | 95.3 | 44.39 | 7.13 | 01/20/2016 |
| Ethyl methacrylate | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 45.87 | 11.22 | 01/20/2016 |
| Ethylbenzene | 5.0 | | **49.3** | 50.00 | 0 | 98.5 | 46.29 | 6.24 | 01/20/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **53.0** | 50.00 | 0 | 106.0 | 49.81 | 6.24 | 01/20/2016 |
| Hexachlorobutadiene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 44.00 | 16.88 | 01/20/2016 |
| Hexachloroethane | 10.0 | | **50.8** | 50.00 | 0 | 101.5 | 44.00 | 14.25 | 01/20/2016 |
| Iodomethane | 5.0 | | **57.8** | 50.00 | 0 | 115.7 | 48.51 | 17.56 | 01/20/2016 |
| Isopropylbenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 48.54 | 9.87 | 01/20/2016 |
| m,p-Xylenes | 5.0 | | **99.9** | 100.0 | 0 | 99.9 | 94.37 | 5.72 | 01/20/2016 |
| Methacrylonitrile | 10.0 | | **51.7** | 50.00 | 0 | 103.4 | 45.38 | 13.06 | 01/20/2016 |
| Methyl Methacrylate | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 50.04 | 7.43 | 01/20/2016 |
| Methyl tert-butyl ether | 2.0 | | **51.8** | 50.00 | 0 | 103.5 | 49.19 | 5.07 | 01/20/2016 |
| Methylacrylate | 10.0 | | **55.0** | 50.00 | 0 | 110.1 | 51.22 | 7.19 | 01/20/2016 |
| Methylene chloride | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 45.77 | 5.48 | 01/20/2016 |
| Naphthalene | 10.0 | | **53.7** | 50.00 | 0 | 107.5 | 46.89 | 13.60 | 01/20/2016 |
| n-Butyl acetate | 25.0 | | **49.0** | 50.00 | 0 | 98.1 | 44.08 | 10.67 | 01/20/2016 |
| n-Butylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 46.55 | 8.83 | 01/20/2016 |
| n-Heptane | 20.0 | | **44.0** | 50.00 | 0 | 88.0 | 46.68 | 5.91 | 01/20/2016 |
| n-Hexane | 20.0 | | **48.6** | 50.00 | 0 | 97.2 | 46.17 | 5.09 | 01/20/2016 |
| Nitrobenzene | 50.0 | | **438** | 500.0 | 0 | 87.5 | 359.5 | 19.59 | 01/20/2016 |
| n-Propylbenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 45.46 | 10.46 | 01/20/2016 |
| o-Xylene | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 47.15 | 5.81 | 01/20/2016 |
| Pentachloroethane | 20.0 | S | **37.7** | 50.00 | 0 | 75.5 | 47.49 | 22.88 | 01/20/2016 |
| p-Isopropyltoluene | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 47.49 | 14.07 | 01/20/2016 |
| Propionitrile | 50.0 | | **516** | 500.0 | 0 | 103.3 | 478.1 | 7.70 | 01/20/2016 |
| sec-Butylbenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 46.60 | 13.39 | 01/20/2016 |
| Styrene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 49.40 | 7.39 | 01/20/2016 |
| tert-Amyl methyl ether | 2.0 | | **52.9** | 50.00 | 0 | 105.8 | 50.84 | 3.95 | 01/20/2016 |
| tert-Butyl alcohol | 25.0 | | **259** | 250.0 | 0 | 103.7 | 213.8 | 19.19 | 01/20/2016 |
| tert-Butylbenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 44.69 | 10.98 | 01/20/2016 |
| Tetrachloroethene | 5.0 | S | **63.6** | 50.00 | 0 | 127.2 | 46.33 | 31.44 | 01/20/2016 |
| Tetrahydrofuran | 20.0 | | **51.0** | 50.00 | 0 | 102.0 | 46.68 | 8.88 | 01/20/2016 |
| Toluene | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 45.15 | 7.81 | 01/20/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 46.01 | 8.69 | 01/20/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 48.72 | 2.65 | 01/20/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16011014
**Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115777** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **42.7** | 50.00 | 0 | 85.3 | 40.62 | 4.92 | 01/20/2016 |
| Trichloroethene | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 47.22 | 10.74 | 01/20/2016 |
| Trichlorofluoromethane | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 47.12 | 12.90 | 01/20/2016 |
| Vinyl acetate | 10.0 | | **48.7** | 50.00 | 0 | 97.5 | 49.74 | 2.05 | 01/20/2016 |
| Vinyl chloride | 2.0 | | **44.9** | 50.00 | 0 | 89.7 | 41.43 | 7.97 | 01/20/2016 |
| Xylenes, Total | 5.0 | | **150** | 150.0 | 0 | 99.9 | 141.5 | 5.75 | 01/20/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **98.4** | 100.0 | 0 | 98.4 | 92.70 | 5.96 | 01/20/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **104** | 100.0 | 0 | 103.7 | 102.7 | 0.94 | 01/20/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **80.8** | 100.0 | 0 | 80.8 | 78.01 | 3.49 | 01/20/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **46.9** | 50.00 | | 93.8 | | | 01/20/2016 |
| Surr: 4-Bromofluorobenzene | | | **48.8** | 50.00 | | 97.5 | | | 01/20/2016 |
| Surr: Toluene-d8 | | | **46.4** | 50.00 | | 92.8 | | | 01/20/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16011014

**Client Project:** NGA 2015-0461.21

**Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115777** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 81.9 | 115 | 01/21/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **47.0** | 50.00 | 0 | 94.0 | 79.4 | 124 | 01/21/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **44.0** | 50.00 | 0 | 88.0 | 74.7 | 116 | 01/21/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **44.3** | 50.00 | 0 | 88.5 | 72.9 | 121 | 01/21/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **46.8** | 50.00 | 0 | 93.5 | 80.8 | 111 | 01/21/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **100** | 125.0 | 0 | 80.4 | 66.3 | 130 | 01/21/2016 |
| 1,1-Dichloroethane | 5.0 | | **46.2** | 50.00 | 0 | 92.4 | 79.4 | 114 | 01/21/2016 |
| 1,1-Dichloroethene | 5.0 | | **43.5** | 50.00 | 0 | 87.0 | 74.1 | 117 | 01/21/2016 |
| 1,1-Dichloropropene | 5.0 | | **47.2** | 50.00 | 0 | 94.5 | 81.7 | 116 | 01/21/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **46.4** | 50.00 | 0 | 92.8 | 79.7 | 118 | 01/21/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **41.2** | 50.00 | 0 | 82.4 | 77.3 | 112 | 01/21/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **46.3** | 50.00 | 0 | 92.5 | 79.9 | 119 | 01/21/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **45.0** | 50.00 | 0 | 90.1 | 79.3 | 118 | 01/21/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 78.7 | 115 | 01/21/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **42.2** | 50.00 | 0 | 84.4 | 76 | 122 | 01/21/2016 |
| 1,2-Dibromoethane | 5.0 | | **47.2** | 50.00 | 0 | 94.4 | 80.8 | 114 | 01/21/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **47.0** | 50.00 | 0 | 94.1 | 78.3 | 112 | 01/21/2016 |
| 1,2-Dichloroethane | 5.0 | | **46.0** | 50.00 | 0 | 91.9 | 70.6 | 118 | 01/21/2016 |
| 1,2-Dichloropropane | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 79.6 | 113 | 01/21/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 77.5 | 115 | 01/21/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **46.2** | 50.00 | 0 | 92.4 | 78.6 | 117 | 01/21/2016 |
| 1,3-Dichloropropane | 5.0 | | **45.5** | 50.00 | 0 | 91.0 | 78.8 | 112 | 01/21/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **46.2** | 50.00 | 0 | 92.4 | 77.8 | 114 | 01/21/2016 |
| 1-Chlorobutane | 5.0 | | **45.7** | 50.00 | 0 | 91.3 | 78.6 | 115 | 01/21/2016 |
| 2,2-Dichloropropane | 5.0 | | **47.8** | 50.00 | 0 | 95.5 | 74.9 | 130 | 01/21/2016 |
| 2-Butanone | 25.0 | | **133** | 125.0 | 0 | 106.1 | 70.7 | 136 | 01/21/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **48.5** | 50.00 | 0 | 97.0 | 52.5 | 145 | 01/21/2016 |
| 2-Chlorotoluene | 5.0 | | **46.0** | 50.00 | 0 | 91.9 | 77.4 | 114 | 01/21/2016 |
| 2-Hexanone | 25.0 | | **115** | 125.0 | 0 | 92.0 | 73.3 | 125 | 01/21/2016 |
| 2-Nitropropane | 50.0 | | **511** | 500.0 | 0 | 102.1 | 67.3 | 139 | 01/21/2016 |
| 4-Chlorotoluene | 5.0 | | **45.6** | 50.00 | 0 | 91.2 | 78.3 | 115 | 01/21/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **106** | 125.0 | 0 | 85.0 | 76.3 | 122 | 01/21/2016 |
| Acetone | 25.0 | | **166** | 125.0 | 0 | 132.7 | 56.4 | 147 | 01/21/2016 |
| Acetonitrile | 50.0 | | **474** | 500.0 | 0 | 94.8 | 59.3 | 129 | 01/21/2016 |
| Acrolein | 100 | | **409** | 500.0 | 0 | 81.8 | 1 | 201 | 01/21/2016 |
| Acrylonitrile | 5.0 | | **47.1** | 50.00 | 0 | 94.3 | 74.1 | 128 | 01/21/2016 |
| Allyl chloride | 5.0 | | **46.6** | 50.00 | 0 | 93.2 | 71.5 | 123 | 01/21/2016 |
| Benzene | 2.0 | | **48.6** | 50.00 | 0 | 97.3 | 80 | 114 | 01/21/2016 |
| Bromobenzene | 5.0 | | **43.4** | 50.00 | 0 | 86.7 | 73.2 | 118 | 01/21/2016 |
| Bromochloromethane | 5.0 | | **46.9** | 50.00 | 0 | 93.9 | 73.3 | 121 | 01/21/2016 |
| Bromodichloromethane | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 81.6 | 121 | 01/21/2016 |
| Bromoform | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 83.1 | 127 | 01/21/2016 |
| Bromomethane | 10.0 | | **44.2** | 50.00 | 0 | 88.5 | 44.4 | 154 | 01/21/2016 |
| Carbon disulfide | 5.0 | | **43.0** | 50.00 | 0 | 86.1 | 73.2 | 118 | 01/21/2016 |
| Carbon tetrachloride | 5.0 | | **48.2** | 50.00 | 0 | 96.5 | 79.4 | 130 | 01/21/2016 |
| Chlorobenzene | 5.0 | | **46.2** | 50.00 | 0 | 92.4 | 81.4 | 110 | 01/21/2016 |
| Chloroethane | 10.0 | | **40.9** | 50.00 | 0 | 81.8 | 52.1 | 137 | 01/21/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011014

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115777 **SampType:** LCS Units **µg/L**

SampID: LCS-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **47.0** | 50.00 | 0 | 94.1 | 82.7 | 116 | 01/21/2016 |
| Chloromethane | 10.0 | | **36.3** | 50.00 | 0 | 72.6 | 48.2 | 144 | 01/21/2016 |
| Chloroprene | 20.0 | | **43.6** | 50.00 | 0 | 87.2 | 80.6 | 126 | 01/21/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **46.7** | 50.00 | 0 | 93.4 | 78.2 | 116 | 01/21/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 83 | 119 | 01/21/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **37.4** | 50.00 | 0 | 74.8 | 60.7 | 137 | 01/21/2016 |
| Cyclohexanone | 50.0 | | **384** | 500.0 | 0 | 76.9 | 54.2 | 145 | 01/21/2016 |
| Dibromochloromethane | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 81.2 | 121 | 01/21/2016 |
| Dibromomethane | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 78.3 | 118 | 01/21/2016 |
| Dichlorodifluoromethane | 10.0 | | **29.6** | 50.00 | 0 | 59.3 | 20.6 | 154 | 01/21/2016 |
| Diisopropyl ether | 2.0 | | **51.1** | 50.00 | 0 | 102.2 | 73.1 | 116 | 01/21/2016 |
| Ethyl acetate | 10.0 | | **45.3** | 50.00 | 0 | 90.6 | 73.1 | 116 | 01/21/2016 |
| Ethyl ether | 5.0 | | **44.4** | 50.00 | 0 | 88.8 | 75.2 | 109 | 01/21/2016 |
| Ethyl methacrylate | 5.0 | | **45.9** | 50.00 | 0 | 91.7 | 80.1 | 113 | 01/21/2016 |
| Ethylbenzene | 5.0 | | **46.3** | 50.00 | 0 | 92.6 | 77.2 | 113 | 01/21/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **49.8** | 50.00 | 0 | 99.6 | 75 | 118 | 01/21/2016 |
| Hexachlorobutadiene | 5.0 | | **44.0** | 50.00 | 0 | 88.0 | 77.3 | 123 | 01/21/2016 |
| Hexachloroethane | 10.0 | | **44.0** | 50.00 | 0 | 88.0 | 74.6 | 117 | 01/21/2016 |
| Iodomethane | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 61.3 | 140 | 01/21/2016 |
| Isopropylbenzene | 5.0 | | **48.5** | 50.00 | 0 | 97.1 | 81.3 | 114 | 01/21/2016 |
| m,p-Xylenes | 5.0 | | **94.4** | 100.0 | 0 | 94.4 | 79.6 | 113 | 01/21/2016 |
| Methacrylonitrile | 10.0 | | **45.4** | 50.00 | 0 | 90.8 | 77.2 | 125 | 01/21/2016 |
| Methyl Methacrylate | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 74.2 | 121 | 01/21/2016 |
| Methyl tert-butyl ether | 2.0 | | **49.2** | 50.00 | 0 | 98.4 | 76.8 | 117 | 01/21/2016 |
| Methylacrylate | 10.0 | | **51.2** | 50.00 | 0 | 102.4 | 78 | 124 | 01/21/2016 |
| Methylene chloride | 5.0 | | **45.8** | 50.00 | 0 | 91.5 | 74.1 | 114 | 01/21/2016 |
| Naphthalene | 10.0 | | **46.9** | 50.00 | 0 | 93.8 | 77.9 | 122 | 01/21/2016 |
| n-Butyl acetate | 25.0 | | **44.1** | 50.00 | 0 | 88.2 | 74 | 120 | 01/21/2016 |
| n-Butylbenzene | 5.0 | | **46.6** | 50.00 | 0 | 93.1 | 71.1 | 120 | 01/21/2016 |
| n-Heptane | 20.0 | | **46.7** | 50.00 | 0 | 93.4 | 67.4 | 129 | 01/21/2016 |
| n-Hexane | 20.0 | | **46.2** | 50.00 | 0 | 92.3 | 68.4 | 126 | 01/21/2016 |
| Nitrobenzene | 50.0 | | **360** | 500.0 | 0 | 71.9 | 37.9 | 181 | 01/21/2016 |
| n-Propylbenzene | 5.0 | | **45.5** | 50.00 | 0 | 90.9 | 74.6 | 118 | 01/21/2016 |
| o-Xylene | 5.0 | | **47.2** | 50.00 | 0 | 94.3 | 80.1 | 111 | 01/21/2016 |
| Pentachloroethane | 20.0 | | **47.5** | 50.00 | 0 | 95.0 | 78.8 | 117 | 01/21/2016 |
| p-Isopropyltoluene | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 77.6 | 118 | 01/21/2016 |
| Propionitrile | 50.0 | | **478** | 500.0 | 0 | 95.6 | 72.9 | 137 | 01/21/2016 |
| sec-Butylbenzene | 5.0 | | **46.6** | 50.00 | 0 | 93.2 | 74.5 | 119 | 01/21/2016 |
| Styrene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 83.4 | 113 | 01/21/2016 |
| tert-Amyl methyl ether | 2.0 | | **50.8** | 50.00 | 0 | 101.7 | 78.7 | 117 | 01/21/2016 |
| tert-Butyl alcohol | 25.0 | | **214** | 250.0 | 0 | 85.5 | 58.1 | 139 | 01/21/2016 |
| tert-Butylbenzene | 5.0 | | **44.7** | 50.00 | 0 | 89.4 | 75.9 | 114 | 01/21/2016 |
| Tetrachloroethene | 5.0 | | **46.3** | 50.00 | 0 | 92.7 | 72.5 | 125 | 01/21/2016 |
| Tetrahydrofuran | 20.0 | | **46.7** | 50.00 | 0 | 93.4 | 69.6 | 125 | 01/21/2016 |
| Toluene | 5.0 | | **45.2** | 50.00 | 0 | 90.3 | 77.5 | 113 | 01/21/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **46.0** | 50.00 | 0 | 92.0 | 79 | 114 | 01/21/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 78 | 115 | 01/21/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011014

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115777 **SampType:** LCS Units **µg/L**

SampID: LCS-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **40.6** | 50.00 | 0 | 81.2 | 63.3 | 128 | 01/21/2016 |
| Trichloroethene | 5.0 | | **47.2** | 50.00 | 0 | 94.4 | 84.4 | 114 | 01/21/2016 |
| Trichlorofluoromethane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 75.2 | 132 | 01/21/2016 |
| Vinyl acetate | 10.0 | | **49.7** | 50.00 | 0 | 99.5 | 64.5 | 127 | 01/21/2016 |
| Vinyl chloride | 2.0 | | **41.4** | 50.00 | 0 | 82.9 | 58 | 134 | 01/21/2016 |
| Xylenes, Total | 5.0 | | **142** | 150.0 | 0 | 94.3 | 80.1 | 111 | 01/21/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **92.7** | 100.0 | 0 | 92.7 | 78.2 | 116 | 01/21/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **103** | 100.0 | 0 | 102.7 | 78 | 119 | 01/21/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **78.0** | 100.0 | 0 | 78.0 | 60.7 | 137 | 01/21/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.9** | 50.00 | | 95.8 | 74.7 | 129 | 01/21/2016 |
| Surr: 4-Bromofluorobenzene | | | **48.8** | 50.00 | | 97.5 | 86 | 119 | 01/21/2016 |
| Surr: Toluene-d8 | | | **47.0** | 50.00 | | 93.9 | 84.1 | 114 | 01/21/2016 |

**Batch** 115777 **SampType:** LCSGD Units **µg/L** RPD Limit **20**

SampID: LCSGD-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1920** | 2000 | 0 | 96.0 | 1958 | 1.99 | 01/21/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.7** | 50.00 | | 95.4 | | | 01/21/2016 |
| Surr: 4-Bromofluorobenzene | | | **48.4** | 50.00 | | 96.8 | | | 01/21/2016 |
| Surr: Toluene-d8 | | | **47.1** | 50.00 | | 94.1 | | | 01/21/2016 |

**Batch** 115777 **SampType:** LCSG Units **µg/L**

SampID: LCSG-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1960** | 2000 | 0 | 97.9 | 70 | 130 | 01/21/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **46.6** | 50.00 | | 93.2 | 74.7 | 129 | 01/21/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.7** | 50.00 | | 99.4 | 86 | 119 | 01/21/2016 |
| Surr: Toluene-d8 | | | **46.5** | 50.00 | | 93.0 | 84.3 | 114 | 01/21/2016 |

**Batch** 115777 **SampType:** MS Units **µg/L**

SampID: 16011015-010BMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5.0 | | **45.2** | 50.00 | 0 | 90.5 | 35.7 | 136 | 01/21/2016 |
| Benzene | 2.0 | | **53.3** | 50.00 | 0 | 106.5 | 62.5 | 121 | 01/21/2016 |
| Chlorobenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 78.6 | 114 | 01/21/2016 |
| Ethylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 74.4 | 130 | 01/21/2016 |
| m,p-Xylenes | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 70.5 | 126 | 01/21/2016 |
| o-Xylene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 71.2 | 124 | 01/21/2016 |
| Toluene | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 69.5 | 118 | 01/21/2016 |
| Trichloroethene | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 69.4 | 117 | 01/21/2016 |
| Xylenes, Total | 5.0 | | **99.4** | 100.0 | 0 | 99.4 | 71.1 | 125 | 01/21/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.4** | 50.00 | | 96.9 | 74.7 | 129 | 01/21/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.6** | 50.00 | | 101.2 | 86 | 119 | 01/21/2016 |
| Surr: Toluene-d8 | | | **47.3** | 50.00 | | 94.5 | 84.3 | 114 | 01/21/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011014

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115777** **SampType:** **MSD** Units **µg/L** RPD Limit **40**

SampID: 16011015-010BMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5.0 | | **45.7** | 50.00 | 0 | 91.5 | 45.25 | 1.08 | 01/21/2016 |
| Benzene | 2.0 | | **53.3** | 50.00 | 0 | 106.7 | 53.26 | 0.13 | 01/21/2016 |
| Chlorobenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 50.48 | 0.22 | 01/21/2016 |
| Ethylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 49.99 | 0.12 | 01/21/2016 |
| m,p-Xylenes | 5.0 | | **50.5** | 50.00 | 0 | 100.9 | 49.70 | 1.52 | 01/21/2016 |
| o-Xylene | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 49.71 | 1.12 | 01/21/2016 |
| Toluene | 5.0 | | **48.0** | 50.00 | 0 | 95.9 | 48.35 | 0.83 | 01/21/2016 |
| Trichloroethene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 52.03 | 0.83 | 01/21/2016 |
| Xylenes, Total | 5.0 | | **101** | 100.0 | 0 | 100.7 | 99.41 | 1.32 | 01/21/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.0** | 50.00 | | 98.1 | | | 01/21/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.4** | 50.00 | | 100.7 | | | 01/21/2016 |
| Surr: Toluene-d8 | | | **46.9** | 50.00 | | 93.8 | | | 01/21/2016 |

# Receiving Check List

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16011014
**Report Date:** 25-Jan-16

**Carrier:** Nick Harvey

**Received By:** SAH

**Completed by:** M. Kaminski
**On:** 19-Jan-16
Mary Anne Kaminski

**Reviewed by:** Elizabeth A. Hurley
**On:** 19-Jan-16
Elizabeth A. Hurley

**Pages to follow:** Chain of custody 1 Extra pages included 0

| | | | | |
|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ | Temp °C 3.62 |
| Type of thermal preservation? | None ☐ | Ice ☑ | Blue Ice ☐ | Dry Ice ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | | |
| Sample containers intact? | Yes ☑ | No ☐ | | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | | |
| All samples received within holding time? | Yes ☑ | No ☐ | | |
| Reported field parameters measured: | Field ☐ | Lab ☐ | NA ☑ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | | |

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

| | | | |
|---|---|---|---|
| Water – at least one vial per sample has zero headspace? | Yes ☑ | No ☐ | No VOA vials ☐ |
| Water - TOX containers have zero headspace? | Yes ☐ | No ☐ | No TOX containers ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | NA ☐ |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes ☐ | No ☐ | NA ☑ |

**Any No responses must be detailed below or on the COC.**

Trip Blank collection date and time will be reported as the received date and time (end of trip).

# CHAIN OF CUSTODY

pg. 1 of 1 Work order # 1601014

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☑ ICE ☐ BLUE ICE ☐ NO ICE 3.602 °C
**Preserved in:** ☑ LAB ☐ FIELD

**FOR LAB USE ONLY**

**Lab Notes**
zero head space Ann 1-19-16

**Client Comments:**
Meet MRBCA DTLs

Teklab, Inc. Courier Pick Up

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1601014 001 | Trip Blank 3 | 12-15-2015 12:45 | | | | | | | | 2 | X | | | | | | | | X |
| 002 | Equipment Blank 3 | 1-19-2016 10:00 | | | | | | | | 2 | X | | | | | | | | X |
| 003 | SCI-58 | 11:30 | 1 | | | | | | | 2 | | | | | | X | X | | X |
| 004 | SCI-64 | 12:00 | 1 | | | | | | | 2 | | | | | | X | X | | X |
| 005 | SCI-66 | 10:15 | 1 | | | | | | | 2 | | | | | | X | X | | X |
| 006 | SCI-68 | 10:30 | 1 | | | | | | | 2 | | | | | | X | X | | X |
| 007 | SCI-68D | 10:30 | 1 | | | | | | | 2 | | | | | | X | X | | X |
| 008 | SCI-71 | 10:45 | 1 | | | | | | | 2 | | | | | | X | X | | X |
| 009 | SCI-75 | 11:00 | | | | | | | | 2 | | | | | | X | | | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 1-19-2016 13:30 | Shelly Hennessy | 1/19/16 1745 |
| | 1/19/16 1530 | | 1/19/16 1530 |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28652

Ann 1-16

January 25, 2016

Ben Butterfield
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301
TEL: (618) 206-3028
FAX: (636) 949-8269

**RE:** NGA 2015-0461.21 **WorkOrder:** 16011015

Dear Ben Butterfield:

TEKLAB, INC received 18 samples on 1/19/2016 3:30:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Project Manager
(618)344-1004 ex 16
MAustin@teklabinc.com

# Report Contents



**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16011015
**Report Date:** 25-Jan-16

**This reporting package includes the following:**


| | |
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| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 4 |
| Laboratory Results | 5 |
| Quality Control Results | 59 |
| Receiving Check List | 90 |
| Chain of Custody | Appended |

# Definitions



**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## Abbr Definition

| | |
|---|---|
| CCV | Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration. |
| DF | Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors. |
| DNI | Did not ignite |
| DUP | Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. |
| ICV | Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated. |
| IDPH | IL Dept. of Public Health |
| LCS | Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request). |
| LCSD | Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MBLK | Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses. |
| MDL | Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. |
| MS | Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MSD | Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MW | Molecular weight |
| ND | Not Detected at the Reporting Limit |
| NELAP | NELAP Accredited |
| PQL | Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request). |
| RL | The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL. |
| RPD | Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request). |
| SPK | The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. |
| Surr | Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. |
| TIC | Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET" |
| TNTC | Too numerous to count ( > 200 CFU ) |

## Qualifiers

| | | | |
|---|---|---|---|
| # - | Unknown hydrocarbon | B - | Analyte detected in associated Method Blank |
| E - | Value above quantitation range | H - | Holding times exceeded |
| I - | Associated internal standard was outside method criteria | J - | Analyte detected below quantitation limits |
| M - | Manual Integration used to determine area response | ND - | Not Detected at the Reporting Limit |
| R - | RPD outside accepted recovery limits | S - | Spike Recovery outside recovery limits |
| T - | TIC(Tentatively identified compound) | X - | Value exceeds Maximum Contaminant Level |

# Case Narrative

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16011015
**Report Date:** 25-Jan-16

**Cooler Receipt Temp:** 2.82 °C

## Locations and Accreditations

| | Collinsville | Springfield | Kansas City | Collinsville Air |
|---|---|---|---|---|
| Address | 5445 Horseshoe Lake Road | 3920 Pintail Dr | 8421 Nieman Road | 5445 Horseshoe Lake Road |
| | Collinsville, IL 62234-7425 | Springfield, IL 62711-9415 | Lenexa, KS 66214 | Collinsville, IL 62234-7425 |
| Phone | (618) 344-1004 | (217) 698-1004 | (913) 541-1998 | (618) 344-1004 |
| Fax | (618) 344-1005 | (217) 698-1005 | (913) 541-1998 | (618) 344-1005 |
| Email | jhriley@teklabinc.com | KKlostermann@teklabinc.com | dthompson@teklabinc.com | EHurley@teklabinc.com |

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|---|---|---|---|---|---|
| Illinois | IEPA | 100226 | NELAP | 1/31/2017 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 1/31/2016 | Collinsville |
| Louisiana | LDEQ | 166493 | NELAP | 6/30/2016 | Collinsville |
| Louisiana | LDEQ | 166578 | NELAP | 6/30/2016 | Collinsville |
| Texas | TCEQ | T104704515-12-1 | NELAP | 7/31/2016 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2016 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2017 | Collinsville |
| Kentucky | KDEP | 98006 | | 12/31/2016 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2016 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2017 | Collinsville |
| Oklahoma | ODEQ | 9978 | | 8/31/2016 | Collinsville |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-001
**Client Sample ID:** Trip Blank 2
**Matrix:** TRIP BLANK
**Collection Date:** 01/19/2016 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-001
**Client Sample ID:** Trip Blank 2
**Matrix:** TRIP BLANK
**Collection Date:** 01/19/2016 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-001
**Client Sample ID:** Trip Blank 2
**Matrix:** TRIP BLANK
**Collection Date:** 01/19/2016 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 14:40 | 115776 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **99.0** | %REC | 1 | 01/20/2016 14:40 | 115776 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **99.6** | %REC | 1 | 01/20/2016 14:40 | 115776 |
| Surr: Toluene-d8 | | 84.3-114 | | **96.0** | %REC | 1 | 01/20/2016 14:40 | 115776 |

*LCSD recovered outside upper QC limits for styrene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-002
**Client Sample ID:** Equipment Blank 2
**Matrix:** AQUEOUS
**Collection Date:** 01/18/2016 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Acetone | NELAP | 25.0 | J | **15** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-002
**Client Sample ID:** Equipment Blank 2
**Matrix:** AQUEOUS
**Collection Date:** 01/18/2016 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-002
**Client Sample ID:** Equipment Blank 2
**Matrix:** AQUEOUS
**Collection Date:** 01/18/2016 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | J | **1.3** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 15:07 | 115776 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **98.8** | %REC | 1 | 01/20/2016 15:07 | 115776 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **99.6** | %REC | 1 | 01/20/2016 15:07 | 115776 |
| Surr: Toluene-d8 | | 84.3-114 | | **95.1** | %REC | 1 | 01/20/2016 15:07 | 115776 |

*LCSD recovered outside upper QC limits for styrene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-003
**Client Sample ID:** SCI-5
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 10:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/20/2016 15:41 | 115741 |
| Anthracene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/20/2016 15:41 | 115741 |
| Benzo(a)anthracene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/20/2016 15:41 | 115741 |
| Benzo(a)pyrene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/20/2016 15:41 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/20/2016 15:41 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/20/2016 15:41 | 115741 |
| Chrysene | NELAP | 0.00400 | | **0.00505** | mg/L | 1 | 01/20/2016 15:41 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/20/2016 15:41 | 115741 |
| Fluoranthene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/20/2016 15:41 | 115741 |
| Fluorene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/20/2016 15:41 | 115741 |
| Pyrene | NELAP | 0.00400 | | **ND** | mg/L | 1 | 01/20/2016 15:41 | 115741 |
| TPH-ORO (C21 - C35) | | 2.00 | | **26.7** | mg/L | 1 | 01/20/2016 15:41 | 115741 |
| TPH-DRO (C10 - C21) | | 2.00 | | **7.16** | mg/L | 1 | 01/20/2016 15:41 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **62.5** | %REC | 1 | 01/20/2016 15:41 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **60.8** | %REC | 1 | 01/20/2016 15:41 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **90.1** | %REC | 1 | 01/20/2016 15:41 | 115741 |

*Elevated reporting limit due to sample composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-003
**Client Sample ID:** SCI-5
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 10:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 2-Chlorotoluene | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 2-Hexanone | NELAP | 25.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 2-Nitropropane | NELAP | 50.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 4-Chlorotoluene | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Acetone | NELAP | 25.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Acetonitrile | NELAP | 50.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Acrolein | NELAP | 100 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Acrylonitrile | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Allyl chloride | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Benzene | NELAP | 2.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Bromobenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Bromochloromethane | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Bromodichloromethane | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Bromoform | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Bromomethane | NELAP | 10.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Carbon disulfide | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Carbon tetrachloride | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Chlorobenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Chloroethane | NELAP | 10.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Chloroform | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Chloromethane | NELAP | 10.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Chloroprene | NELAP | 20.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Cyclohexanone | | 50.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Dibromochloromethane | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Dibromomethane | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Dichlorodifluoromethane | NELAP | 10.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Diisopropyl ether | | 2.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Ethyl acetate | NELAP | 10.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Ethyl ether | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Ethyl methacrylate | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Ethylbenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Ethyl-tert-butyl ether | | 2.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Hexachlorobutadiene | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Hexachloroethane | NELAP | 10.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Iodomethane | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Isopropylbenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| m,p-Xylenes | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Methacrylonitrile | NELAP | 10.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Methyl Methacrylate | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Methyl tert-butyl ether | NELAP | 2.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Methylacrylate | NELAP | 10.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Methylene chloride | NELAP | 5.0 | | ND | µg/L | 1 | 01/25/2016 11:55 | 115850 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-003
**Client Sample ID:** SCI-5
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 10:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 11:55 | 115850 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **94.9** | %REC | 1 | 01/25/2016 11:55 | 115850 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **103.1** | %REC | 1 | 01/25/2016 11:55 | 115850 |
| Surr: Toluene-d8 | | 84.3-114 | | **93.4** | %REC | 1 | 01/25/2016 11:55 | 115850 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-004
**Client Sample ID:** SCI-5D
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 10:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 16:14 | 115741 |
| Anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 16:14 | 115741 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 16:14 | 115741 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 16:14 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 16:14 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 16:14 | 115741 |
| Chrysene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 16:14 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 16:14 | 115741 |
| Fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 16:14 | 115741 |
| Fluorene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 16:14 | 115741 |
| Pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 16:14 | 115741 |
| TPH-ORO (C21 - C35) | | 20.0 | | **146** | mg/L | 1 | 01/20/2016 16:14 | 115741 |
| TPH-DRO (C10 - C21) | | 20.0 | | **39.3** | mg/L | 1 | 01/20/2016 16:14 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **44.6** | %REC | 1 | 01/20/2016 16:14 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **57.1** | %REC | 1 | 01/20/2016 16:14 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **79.9** | %REC | 1 | 01/20/2016 16:14 | 115741 |

*Elevated reporting limit due to sample composition.*

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-004
**Client Sample ID:** SCI-5D
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 10:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-004
**Client Sample ID:** SCI-5D
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 10:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/25/2016 12:21 | 115850 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **96.6** | %REC | 1 | 01/25/2016 12:21 | 115850 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **101.1** | %REC | 1 | 01/25/2016 12:21 | 115850 |
| Surr: Toluene-d8 | | 84.3-114 | | **93.5** | %REC | 1 | 01/25/2016 12:21 | 115850 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011015-005 **Client Sample ID:** SCI-10

**Matrix:** GROUNDWATER **Collection Date:** 01/18/2016 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:00 | 115741 |
| Anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:00 | 115741 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:00 | 115741 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:00 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:00 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:00 | 115741 |
| Chrysene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:00 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:00 | 115741 |
| Fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:00 | 115741 |
| Fluorene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:00 | 115741 |
| Pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:00 | 115741 |
| TPH-ORO (C21 - C35) | | 20.0 | J | **16** | mg/L | 1 | 01/20/2016 19:00 | 115741 |
| TPH-DRO (C10 - C21) | | 20.0 | | **ND** | mg/L | 1 | 01/20/2016 19:00 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **12.4** | %REC | 1 | 01/20/2016 19:00 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **49.7** | %REC | 1 | 01/20/2016 19:00 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **73.3** | %REC | 1 | 01/20/2016 19:00 | 115741 |

*Elevated reporting limit due to sample composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011015-005 **Client Sample ID:** SCI-10

**Matrix:** GROUNDWATER **Collection Date:** 01/18/2016 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-005
**Client Sample ID:** SCI-10
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:27 | 115776 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **97.5** | %REC | 1 | 01/20/2016 16:27 | 115776 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **101.9** | %REC | 1 | 01/20/2016 16:27 | 115776 |
| Surr: Toluene-d8 | | 84.3-114 | | **96.2** | %REC | 1 | 01/20/2016 16:27 | 115776 |

*LCSD recovered outside upper QC limits for styrene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-006
**Client Sample ID:** SCI-10D
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:33 | 115741 |
| Anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:33 | 115741 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:33 | 115741 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:33 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:33 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:33 | 115741 |
| Chrysene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:33 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:33 | 115741 |
| Fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:33 | 115741 |
| Fluorene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:33 | 115741 |
| Pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 19:33 | 115741 |
| TPH-ORO (C21 - C35) | | 20.0 | | **46.5** | mg/L | 1 | 01/20/2016 19:33 | 115741 |
| TPH-DRO (C10 - C21) | | 20.0 | | **ND** | mg/L | 1 | 01/20/2016 19:33 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **25.9** | %REC | 1 | 01/20/2016 19:33 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **66.2** | %REC | 1 | 01/20/2016 19:33 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **86.5** | %REC | 1 | 01/20/2016 19:33 | 115741 |

*Elevated reporting limit due to sample composition.*

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011015-006 **Client Sample ID:** SCI-10D

**Matrix:** GROUNDWATER **Collection Date:** 01/18/2016 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-006
**Client Sample ID:** SCI-10D
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 16:53 | 115776 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **98.6** | %REC | 1 | 01/20/2016 16:53 | 115776 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **100.8** | %REC | 1 | 01/20/2016 16:53 | 115776 |
| Surr: Toluene-d8 | | 84.3-114 | | **96.0** | %REC | 1 | 01/20/2016 16:53 | 115776 |

*LCSD recovered outside upper QC limits for styrene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-007
**Client Sample ID:** SCI-27
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 11:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011015-007 **Client Sample ID:** SCI-27

**Matrix:** GROUNDWATER **Collection Date:** 01/18/2016 11:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011015-007 **Client Sample ID:** SCI-27

**Matrix:** GROUNDWATER **Collection Date:** 01/18/2016 11:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:20 | 115776 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **98.2** | %REC | 1 | 01/20/2016 17:20 | 115776 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **101.5** | %REC | 1 | 01/20/2016 17:20 | 115776 |
| Surr: Toluene-d8 | | 84.3-114 | | **94.7** | %REC | 1 | 01/20/2016 17:20 | 115776 |

*LCSD recovered outside upper QC limits for styrene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011015-008 **Client Sample ID:** SCI-28

**Matrix:** GROUNDWATER **Collection Date:** 01/18/2016 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011015-008 **Client Sample ID:** SCI-28

**Matrix:** GROUNDWATER **Collection Date:** 01/18/2016 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-008
**Client Sample ID:** SCI-28
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 17:47 | 115776 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **98.4** | %REC | 1 | 01/20/2016 17:47 | 115776 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **100.6** | %REC | 1 | 01/20/2016 17:47 | 115776 |
| Surr: Toluene-d8 | | 84.3-114 | | **94.8** | %REC | 1 | 01/20/2016 17:47 | 115776 |

*LCSD recovered outside upper QC limits for styrene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-009
**Client Sample ID:** SCI-31
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:06 | 115741 |
| Anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:06 | 115741 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:06 | 115741 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:06 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:06 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:06 | 115741 |
| Chrysene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:06 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:06 | 115741 |
| Fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:06 | 115741 |
| Fluorene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:06 | 115741 |
| Pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:06 | 115741 |
| TPH-ORO (C21 - C35) | | 20.0 | | **26.5** | mg/L | 1 | 01/20/2016 20:06 | 115741 |
| TPH-DRO (C10 - C21) | | 20.0 | | **ND** | mg/L | 1 | 01/20/2016 20:06 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **17.5** | %REC | 1 | 01/20/2016 20:06 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **61.4** | %REC | 1 | 01/20/2016 20:06 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **89.7** | %REC | 1 | 01/20/2016 20:06 | 115741 |

*Elevated reporting limit due to sample composition.*

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011015-009 **Client Sample ID:** SCI-31

**Matrix:** GROUNDWATER **Collection Date:** 01/18/2016 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-009
**Client Sample ID:** SCI-31
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/20/2016 18:14 | 115776 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **99.1** | %REC | 1 | 01/20/2016 18:14 | 115776 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **100.4** | %REC | 1 | 01/20/2016 18:14 | 115776 |
| Surr: Toluene-d8 | | 84.3-114 | | **95.8** | %REC | 1 | 01/20/2016 18:14 | 115776 |

*LCSD recovered outside upper QC limits for styrene. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-010
**Client Sample ID:** SCI-33
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 12:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:39 | 115741 |
| Anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:39 | 115741 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:39 | 115741 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:39 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:39 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:39 | 115741 |
| Chrysene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:39 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:39 | 115741 |
| Fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:39 | 115741 |
| Fluorene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:39 | 115741 |
| Pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 20:39 | 115741 |
| TPH-ORO (C21 - C35) | | 20.0 | J | **15** | mg/L | 1 | 01/20/2016 20:39 | 115741 |
| TPH-DRO (C10 - C21) | | 20.0 | | **ND** | mg/L | 1 | 01/20/2016 20:39 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **24.8** | %REC | 1 | 01/20/2016 20:39 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **64.3** | %REC | 1 | 01/20/2016 20:39 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **95.9** | %REC | 1 | 01/20/2016 20:39 | 115741 |

*Elevated reporting limit due to sample composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-010
**Client Sample ID:** SCI-33
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 12:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-010
**Client Sample ID:** SCI-33
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 12:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:15 | 115777 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **91.7** | %REC | 1 | 01/21/2016 2:15 | 115777 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **98.6** | %REC | 1 | 01/21/2016 2:15 | 115777 |
| Surr: Toluene-d8 | | 84.3-114 | | **92.9** | %REC | 1 | 01/21/2016 2:15 | 115777 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011015-011 **Client Sample ID:** SCI-37

**Matrix:** GROUNDWATER **Collection Date:** 01/18/2016 13:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:12 | 115741 |
| Anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:12 | 115741 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:12 | 115741 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:12 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:12 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:12 | 115741 |
| Chrysene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:12 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:12 | 115741 |
| Fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:12 | 115741 |
| Fluorene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:12 | 115741 |
| Pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:12 | 115741 |
| TPH-ORO (C21 - C35) | | 20.0 | J | **13** | mg/L | 1 | 01/20/2016 21:12 | 115741 |
| TPH-DRO (C10 - C21) | | 20.0 | | **ND** | mg/L | 1 | 01/20/2016 21:12 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **21.4** | %REC | 1 | 01/20/2016 21:12 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **60.7** | %REC | 1 | 01/20/2016 21:12 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **92.4** | %REC | 1 | 01/20/2016 21:12 | 115741 |

*Elevated reporting limit due to sample composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011015-011 **Client Sample ID:** SCI-37

**Matrix:** GROUNDWATER **Collection Date:** 01/18/2016 13:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Chloroform | NELAP | 5.0 | J | **2.0** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-011
**Client Sample ID:** SCI-37
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 13:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 2:42 | 115777 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **92.6** | %REC | 1 | 01/21/2016 2:42 | 115777 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **99.1** | %REC | 1 | 01/21/2016 2:42 | 115777 |
| Surr: Toluene-d8 | | 84.3-114 | | **93.3** | %REC | 1 | 01/21/2016 2:42 | 115777 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011015-012 **Client Sample ID:** SCI-41

**Matrix:** GROUNDWATER **Collection Date:** 01/18/2016 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:46 | 115741 |
| Anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:46 | 115741 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:46 | 115741 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:46 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:46 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:46 | 115741 |
| Chrysene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:46 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:46 | 115741 |
| Fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:46 | 115741 |
| Fluorene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:46 | 115741 |
| Pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 21:46 | 115741 |
| TPH-ORO (C21 - C35) | | 20.0 | | **44.3** | mg/L | 1 | 01/20/2016 21:46 | 115741 |
| TPH-DRO (C10 - C21) | | 20.0 | | **ND** | mg/L | 1 | 01/20/2016 21:46 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **18.0** | %REC | 1 | 01/20/2016 21:46 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **65.3** | %REC | 1 | 01/20/2016 21:46 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **89.1** | %REC | 1 | 01/20/2016 21:46 | 115741 |

*Elevated reporting limit due to sample composition.*

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-012
**Client Sample ID:** SCI-41
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 2-Chlorotoluene | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 2-Hexanone | NELAP | 25.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 2-Nitropropane | NELAP | 50.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 4-Chlorotoluene | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Acetone | NELAP | 25.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Acetonitrile | NELAP | 50.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Acrolein | NELAP | 100 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Acrylonitrile | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Allyl chloride | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Benzene | NELAP | 2.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Bromobenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Bromochloromethane | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Bromodichloromethane | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Bromoform | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Bromomethane | NELAP | 10.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Carbon disulfide | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Carbon tetrachloride | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Chlorobenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Chloroethane | NELAP | 10.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Chloroform | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Chloromethane | NELAP | 10.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Chloroprene | NELAP | 20.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Cyclohexanone | | 50.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Dibromochloromethane | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Dibromomethane | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Dichlorodifluoromethane | NELAP | 10.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Diisopropyl ether | | 2.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Ethyl acetate | NELAP | 10.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Ethyl ether | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Ethyl methacrylate | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Ethylbenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Ethyl-tert-butyl ether | | 2.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Hexachlorobutadiene | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Hexachloroethane | NELAP | 10.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Iodomethane | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Isopropylbenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| m,p-Xylenes | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Methacrylonitrile | NELAP | 10.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Methyl Methacrylate | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Methyl tert-butyl ether | NELAP | 2.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Methylacrylate | NELAP | 10.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Methylene chloride | NELAP | 5.0 | | ND | µg/L | 1 | 01/21/2016 3:09 | 115777 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-012
**Client Sample ID:** SCI-41
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:09 | 115777 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **91.6** | %REC | 1 | 01/21/2016 3:09 | 115777 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **101.7** | %REC | 1 | 01/21/2016 3:09 | 115777 |
| Surr: Toluene-d8 | | 84.3-114 | | **96.4** | %REC | 1 | 01/21/2016 3:09 | 115777 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-013
**Client Sample ID:** SCI-41D
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:19 | 115741 |
| Anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:19 | 115741 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:19 | 115741 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:19 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:19 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:19 | 115741 |
| Chrysene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:19 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:19 | 115741 |
| Fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:19 | 115741 |
| Fluorene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:19 | 115741 |
| Pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:19 | 115741 |
| TPH-ORO (C21 - C35) | | 20.0 | | **26.8** | mg/L | 1 | 01/20/2016 22:19 | 115741 |
| TPH-DRO (C10 - C21) | | 20.0 | J | **12** | mg/L | 1 | 01/20/2016 22:19 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **17.7** | %REC | 1 | 01/20/2016 22:19 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **54.7** | %REC | 1 | 01/20/2016 22:19 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **82.6** | %REC | 1 | 01/20/2016 22:19 | 115741 |

*Elevated reporting limit due to sample composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011015-013 **Client Sample ID:** SCI-41D

**Matrix:** GROUNDWATER **Collection Date:** 01/18/2016 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-013
**Client Sample ID:** SCI-41D
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 3:36 | 115777 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **93.5** | %REC | 1 | 01/21/2016 3:36 | 115777 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **98.7** | %REC | 1 | 01/21/2016 3:36 | 115777 |
| Surr: Toluene-d8 | | 84.3-114 | | **94.3** | %REC | 1 | 01/21/2016 3:36 | 115777 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-014
**Client Sample ID:** SCI-45
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 13:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:52 | 115741 |
| Anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:52 | 115741 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:52 | 115741 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:52 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:52 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:52 | 115741 |
| Chrysene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:52 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:52 | 115741 |
| Fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:52 | 115741 |
| Fluorene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:52 | 115741 |
| Pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 22:52 | 115741 |
| TPH-ORO (C21 - C35) | | 20.0 | | **180** | mg/L | 1 | 01/20/2016 22:52 | 115741 |
| TPH-DRO (C10 - C21) | | 20.0 | J | **16** | mg/L | 1 | 01/20/2016 22:52 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **18.2** | %REC | 1 | 01/20/2016 22:52 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **58.9** | %REC | 1 | 01/20/2016 22:52 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **88.2** | %REC | 1 | 01/20/2016 22:52 | 115741 |

*Elevated reporting limit due to sample composition.*

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-014
**Client Sample ID:** SCI-45
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 13:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-014
**Client Sample ID:** SCI-45
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 13:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:03 | 115777 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **92.8** | %REC | 1 | 01/21/2016 4:03 | 115777 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **100.5** | %REC | 1 | 01/21/2016 4:03 | 115777 |
| Surr: Toluene-d8 | | 84.3-114 | | **93.9** | %REC | 1 | 01/21/2016 4:03 | 115777 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011015-015 **Client Sample ID:** SCI-47

**Matrix:** GROUNDWATER **Collection Date:** 01/18/2016 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:25 | 115741 |
| Anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:25 | 115741 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:25 | 115741 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:25 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:25 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:25 | 115741 |
| Chrysene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:25 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:25 | 115741 |
| Fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:25 | 115741 |
| Fluorene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:25 | 115741 |
| Pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:25 | 115741 |
| TPH-ORO (C21 - C35) | | 20.0 | J | **16** | mg/L | 1 | 01/20/2016 23:25 | 115741 |
| TPH-DRO (C10 - C21) | | 20.0 | J | **13** | mg/L | 1 | 01/20/2016 23:25 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **20.7** | %REC | 1 | 01/20/2016 23:25 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **62.8** | %REC | 1 | 01/20/2016 23:25 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **84.5** | %REC | 1 | 01/20/2016 23:25 | 115741 |

*Elevated reporting limit due to sample composition.*

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011015-015 **Client Sample ID:** SCI-47

**Matrix:** GROUNDWATER **Collection Date:** 01/18/2016 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-015
**Client Sample ID:** SCI-47
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:30 | 115777 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **94.0** | %REC | 1 | 01/21/2016 4:30 | 115777 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **99.1** | %REC | 1 | 01/21/2016 4:30 | 115777 |
| Surr: Toluene-d8 | | 84.3-114 | | **93.0** | %REC | 1 | 01/21/2016 4:30 | 115777 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-016
**Client Sample ID:** SCI-50
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 14:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:58 | 115741 |
| Anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:58 | 115741 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:58 | 115741 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:58 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:58 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:58 | 115741 |
| Chrysene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:58 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:58 | 115741 |
| Fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:58 | 115741 |
| Fluorene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:58 | 115741 |
| Pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/20/2016 23:58 | 115741 |
| TPH-ORO (C21 - C35) | | 20.0 | J | **15** | mg/L | 1 | 01/20/2016 23:58 | 115741 |
| TPH-DRO (C10 - C21) | | 20.0 | J | **12** | mg/L | 1 | 01/20/2016 23:58 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **18.9** | %REC | 1 | 01/20/2016 23:58 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **60.0** | %REC | 1 | 01/20/2016 23:58 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **89.8** | %REC | 1 | 01/20/2016 23:58 | 115741 |

*Elevated reporting limit due to sample composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-016
**Client Sample ID:** SCI-50
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 14:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-016
**Client Sample ID:** SCI-50
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 14:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 4:57 | 115777 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **96.0** | %REC | 1 | 01/21/2016 4:57 | 115777 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **99.5** | %REC | 1 | 01/21/2016 4:57 | 115777 |
| Surr: Toluene-d8 | | 84.3-114 | | **95.2** | %REC | 1 | 01/21/2016 4:57 | 115777 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011015-017 **Client Sample ID:** SCI-53

**Matrix:** GROUNDWATER **Collection Date:** 01/18/2016 14:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 0:31 | 115741 |
| Anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 0:31 | 115741 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 0:31 | 115741 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 0:31 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 0:31 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 0:31 | 115741 |
| Chrysene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 0:31 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 0:31 | 115741 |
| Fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 0:31 | 115741 |
| Fluorene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 0:31 | 115741 |
| Pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 0:31 | 115741 |
| TPH-ORO (C21 - C35) | | 20.0 | J | **13** | mg/L | 1 | 01/21/2016 0:31 | 115741 |
| TPH-DRO (C10 - C21) | | 20.0 | | **ND** | mg/L | 1 | 01/21/2016 0:31 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **21.7** | %REC | 1 | 01/21/2016 0:31 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **61.5** | %REC | 1 | 01/21/2016 0:31 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **90.9** | %REC | 1 | 01/21/2016 0:31 | 115741 |

*Elevated reporting limit due to sample composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-017
**Client Sample ID:** SCI-53
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 14:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-017
**Client Sample ID:** SCI-53
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 14:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:24 | 115777 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **94.8** | %REC | 1 | 01/21/2016 5:24 | 115777 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **99.3** | %REC | 1 | 01/21/2016 5:24 | 115777 |
| Surr: Toluene-d8 | | 84.3-114 | | **93.7** | %REC | 1 | 01/21/2016 5:24 | 115777 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

**Lab ID:** 16011015-018 **Client Sample ID:** SCI-55

**Matrix:** GROUNDWATER **Collection Date:** 01/18/2016 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 1:04 | 115741 |
| Anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 1:04 | 115741 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 1:04 | 115741 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 1:04 | 115741 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 1:04 | 115741 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 1:04 | 115741 |
| Chrysene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 1:04 | 115741 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 1:04 | 115741 |
| Fluoranthene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 1:04 | 115741 |
| Fluorene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 1:04 | 115741 |
| Pyrene | NELAP | 0.0400 | | **ND** | mg/L | 1 | 01/21/2016 1:04 | 115741 |
| TPH-ORO (C21 - C35) | | 20.0 | J | **12** | mg/L | 1 | 01/21/2016 1:04 | 115741 |
| TPH-DRO (C10 - C21) | | 20.0 | | **ND** | mg/L | 1 | 01/21/2016 1:04 | 115741 |
| Surr: 2-Fluorobiphenyl | | 10-178 | | **27.1** | %REC | 1 | 01/21/2016 1:04 | 115741 |
| Surr: Nitrobenzene-d5 | | 10-231 | | **64.7** | %REC | 1 | 01/21/2016 1:04 | 115741 |
| Surr: p-Terphenyl-d14 | | 10-220 | | **82.3** | %REC | 1 | 01/21/2016 1:04 | 115741 |

*Elevated reporting limit due to sample composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-018
**Client Sample ID:** SCI-55
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16011015
**Client Project:** NGA 2015-0461.21
**Report Date:** 25-Jan-16
**Lab ID:** 16011015-018
**Client Sample ID:** SCI-55
**Matrix:** GROUNDWATER
**Collection Date:** 01/18/2016 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/21/2016 5:50 | 115777 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **99.2** | %REC | 1 | 01/21/2016 5:50 | 115777 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **100.3** | %REC | 1 | 01/21/2016 5:50 | 115777 |
| Surr: Toluene-d8 | | 84.3-114 | | **94.6** | %REC | 1 | 01/21/2016 5:50 | 115777 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115741 **SampType:** MBLK Units **mg/L**

SampID: MBLK-115741

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Anthracene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Benzo(a)anthracene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Benzo(a)pyrene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Benzo(b)fluoranthene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Benzo(k)fluoranthene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Chrysene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Dibenzo(a,h)anthracene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Fluoranthene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Fluorene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| Pyrene | 0.00100 | | **ND** | | | | | | 01/20/2016 |
| TPH-ORO (C21 - C35) | 0.500 | J | **0.36** | | | | | | 01/20/2016 |
| TPH-DRO (C10 - C21) | 0.500 | J | **0.33** | | | | | | 01/20/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.00402** | 0.01250 | | 32.2 | 10 | 175 | 01/20/2016 |
| Surr: Nitrobenzene-d5 | | | **0.0103** | 0.01250 | | 82.4 | 10 | 202 | 01/20/2016 |
| Surr: p-Terphenyl-d14 | | | **0.0136** | 0.01250 | | 108.9 | 10 | 201 | 01/20/2016 |

**Batch** 115741 **SampType:** LCS Units **mg/L**

SampID: LCS-115741

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.00100 | | **0.00768** | 0.01000 | 0 | 76.8 | 46.6 | 162 | 01/20/2016 |
| Anthracene | 0.00100 | | **0.00821** | 0.01000 | 0 | 82.1 | 50.9 | 161 | 01/20/2016 |
| Benzo(a)anthracene | 0.00100 | | **0.00790** | 0.01000 | 0 | 79.0 | 58.5 | 159 | 01/20/2016 |
| Benzo(a)pyrene | 0.00100 | | **0.00804** | 0.01000 | 0 | 80.4 | 60.1 | 153 | 01/20/2016 |
| Benzo(b)fluoranthene | 0.00100 | | **0.00784** | 0.01000 | 0 | 78.4 | 62.6 | 152 | 01/20/2016 |
| Benzo(k)fluoranthene | 0.00100 | | **0.00876** | 0.01000 | 0 | 87.6 | 59.9 | 153 | 01/20/2016 |
| Chrysene | 0.00100 | | **0.00815** | 0.01000 | 0 | 81.5 | 57.4 | 154 | 01/20/2016 |
| Dibenzo(a,h)anthracene | 0.00100 | | **0.00887** | 0.01000 | 0 | 88.7 | 57.1 | 152 | 01/20/2016 |
| Fluoranthene | 0.00100 | | **0.00871** | 0.01000 | 0 | 87.1 | 53.3 | 161 | 01/20/2016 |
| Fluorene | 0.00100 | | **0.00843** | 0.01000 | 0 | 84.3 | 50.2 | 159 | 01/20/2016 |
| Pyrene | 0.00100 | | **0.00859** | 0.01000 | 0 | 85.9 | 52.4 | 160 | 01/20/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.00927** | 0.01250 | | 74.1 | 10 | 175 | 01/20/2016 |
| Surr: Nitrobenzene-d5 | | | **0.0106** | 0.01250 | | 84.8 | 10 | 202 | 01/20/2016 |
| Surr: p-Terphenyl-d14 | | | **0.0126** | 0.01250 | | 100.8 | 10 | 201 | 01/20/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115741** **SampType: LCSD** Units **mg/L** RPD Limit **40**

SampID: LCSD-115741

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.00100 | | **0.00836** | 0.01000 | 0 | 83.6 | 0.007675 | 8.60 | 01/20/2016 |
| Anthracene | 0.00100 | | **0.00858** | 0.01000 | 0 | 85.8 | 0.008214 | 4.40 | 01/20/2016 |
| Benzo(a)anthracene | 0.00100 | | **0.00854** | 0.01000 | 0 | 85.4 | 0.007895 | 7.87 | 01/20/2016 |
| Benzo(a)pyrene | 0.00100 | | **0.00818** | 0.01000 | 0 | 81.8 | 0.008042 | 1.71 | 01/20/2016 |
| Benzo(b)fluoranthene | 0.00100 | | **0.00855** | 0.01000 | 0 | 85.5 | 0.007836 | 8.70 | 01/20/2016 |
| Benzo(k)fluoranthene | 0.00100 | | **0.00829** | 0.01000 | 0 | 82.9 | 0.008756 | 5.53 | 01/20/2016 |
| Chrysene | 0.00100 | | **0.00830** | 0.01000 | 0 | 83.0 | 0.008146 | 1.85 | 01/20/2016 |
| Dibenzo(a,h)anthracene | 0.00100 | | **0.00930** | 0.01000 | 0 | 93.0 | 0.008874 | 4.74 | 01/20/2016 |
| Fluoranthene | 0.00100 | | **0.00870** | 0.01000 | 0 | 87.0 | 0.008706 | 0.13 | 01/20/2016 |
| Fluorene | 0.00100 | | **0.00877** | 0.01000 | 0 | 87.7 | 0.008433 | 3.92 | 01/20/2016 |
| Pyrene | 0.00100 | | **0.00903** | 0.01000 | 0 | 90.3 | 0.008591 | 4.97 | 01/20/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.0101** | 0.01250 | | 81.1 | | | 01/20/2016 |
| Surr: Nitrobenzene-d5 | | | **0.0113** | 0.01250 | | 90.7 | | | 01/20/2016 |
| Surr: p-Terphenyl-d14 | | | **0.0126** | 0.01250 | | 101.2 | | | 01/20/2016 |

**Batch 115741** **SampType: LCSG** Units **mg/L**

SampID: LCSG-115741

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 0.500 | | **1.70** | 2.000 | 0 | 85.0 | 50 | 175 | 01/20/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.0100** | 0.01250 | | 80.3 | 10 | 175 | 01/20/2016 |
| Surr: Nitrobenzene-d5 | | | **0.0114** | 0.01250 | | 90.9 | 10 | 202 | 01/20/2016 |
| Surr: p-Terphenyl-d14 | | | **0.0122** | 0.01250 | | 97.9 | 10 | 201 | 01/20/2016 |

**Batch 115741** **SampType: LCSGD** Units **mg/L** RPD Limit **40**

SampID: LCSGD-115741

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 0.500 | | **1.74** | 2.000 | 0 | 86.8 | 1.700 | 2.10 | 01/20/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.0104** | 0.01250 | | 82.9 | | | 01/20/2016 |
| Surr: Nitrobenzene-d5 | | | **0.0122** | 0.01250 | | 97.7 | | | 01/20/2016 |
| Surr: p-Terphenyl-d14 | | | **0.0126** | 0.01250 | | 101.0 | | | 01/20/2016 |

**Batch 115741** **SampType: MS** Units **mg/L**

SampID: 16011014-008AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 2.00 | | **5.64** | 8.000 | 1.256 | 54.8 | 50 | 175 | 01/21/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.0394** | 0.05000 | | 78.8 | 10 | 178 | 01/21/2016 |
| Surr: Nitrobenzene-d5 | | | **0.0401** | 0.05000 | | 80.1 | 10 | 231 | 01/21/2016 |
| Surr: p-Terphenyl-d14 | | | **0.0469** | 0.05000 | | 93.7 | 10 | 220 | 01/21/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115741** **SampType:** **MSD** Units **mg/L** RPD Limit **40**

SampID: 16011014-008AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 2.00 | | **5.59** | 8.000 | 1.256 | 54.1 | 5.644 | 1.03 | 01/21/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.0363** | 0.05000 | | 72.5 | | | 01/21/2016 |
| Surr: Nitrobenzene-d5 | | | **0.0377** | 0.05000 | | 75.4 | | | 01/21/2016 |
| Surr: p-Terphenyl-d14 | | | **0.0468** | 0.05000 | | 93.5 | | | 01/21/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115776** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **ND** | | | | | | 01/20/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/20/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 2-Butanone | 25.0 | | **ND** | | | | | | 01/20/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **ND** | | | | | | 01/20/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 2-Hexanone | 25.0 | | **ND** | | | | | | 01/20/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/20/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **ND** | | | | | | 01/20/2016 |
| Acetone | 25.0 | | **ND** | | | | | | 01/20/2016 |
| Acetonitrile | 50.0 | | **ND** | | | | | | 01/20/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/20/2016 |
| Acrylonitrile | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Benzene | 2.0 | | **ND** | | | | | | 01/20/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/20/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/20/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115776** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Chloromethane | 10.0 | | **ND** | | | | | | 01/20/2016 |
| Chloroprene | 20.0 | | **ND** | | | | | | 01/20/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Cyclohexanone | 50.0 | | **ND** | | | | | | 01/20/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/20/2016 |
| Diisopropyl ether | 2.0 | | **ND** | | | | | | 01/20/2016 |
| Ethyl acetate | 10.0 | | **ND** | | | | | | 01/20/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **ND** | | | | | | 01/20/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Hexachloroethane | 10.0 | | **ND** | | | | | | 01/20/2016 |
| Iodomethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Methacrylonitrile | 10.0 | | **ND** | | | | | | 01/20/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/20/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/20/2016 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/20/2016 |
| n-Butyl acetate | 25.0 | | **ND** | | | | | | 01/20/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/20/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/20/2016 |
| Nitrobenzene | 50.0 | | **ND** | | | | | | 01/20/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Pentachloroethane | 20.0 | | **ND** | | | | | | 01/20/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/20/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| tert-Amyl methyl ether | 2.0 | | **ND** | | | | | | 01/20/2016 |
| tert-Butyl alcohol | 25.0 | | **ND** | | | | | | 01/20/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Tetrahydrofuran | 20.0 | | **ND** | | | | | | 01/20/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/20/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115776** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **ND** | | | | | | 01/20/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/20/2016 |
| Vinyl acetate | 10.0 | | **ND** | | | | | | 01/20/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/20/2016 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 01/20/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 01/20/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/20/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.4** | 50.00 | | 94.8 | 74.7 | 129 | 01/20/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.1** | 50.00 | | 100.2 | 86 | 119 | 01/20/2016 |
| Surr: Toluene-d8 | | | **47.1** | 50.00 | | 94.3 | 84.3 | 114 | 01/20/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115776** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **55.9** | 50.00 | 0 | 111.8 | 50.14 | 10.86 | 01/20/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 49.57 | 4.46 | 01/20/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **52.7** | 50.00 | 0 | 105.3 | 46.33 | 12.79 | 01/20/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **51.6** | 50.00 | 0 | 103.2 | 49.19 | 4.74 | 01/20/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 44.48 | 17.85 | 01/20/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **124** | 125.0 | 0 | 99.6 | 107.8 | 14.38 | 01/20/2016 |
| 1,1-Dichloroethane | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 47.90 | 8.21 | 01/20/2016 |
| 1,1-Dichloroethene | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 47.66 | 3.77 | 01/20/2016 |
| 1,1-Dichloropropene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 49.71 | 7.72 | 01/20/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **56.5** | 50.00 | 0 | 113.0 | 48.90 | 14.46 | 01/20/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **49.3** | 50.00 | 0 | 98.7 | 45.02 | 9.14 | 01/20/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 48.50 | 10.19 | 01/20/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **54.8** | 50.00 | 0 | 109.7 | 48.04 | 13.24 | 01/20/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 49.63 | 12.22 | 01/20/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 46.12 | 11.00 | 01/20/2016 |
| 1,2-Dibromoethane | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 46.46 | 16.25 | 01/20/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **54.8** | 50.00 | 0 | 109.6 | 49.04 | 11.13 | 01/20/2016 |
| 1,2-Dichloroethane | 5.0 | | **48.8** | 50.00 | 0 | 97.7 | 46.63 | 4.63 | 01/20/2016 |
| 1,2-Dichloropropane | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 48.79 | 9.99 | 01/20/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **56.5** | 50.00 | 0 | 113.1 | 50.07 | 12.12 | 01/20/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **54.8** | 50.00 | 0 | 109.5 | 49.09 | 10.90 | 01/20/2016 |
| 1,3-Dichloropropane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 43.21 | 17.68 | 01/20/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 47.86 | 10.61 | 01/20/2016 |
| 1-Chlorobutane | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 47.50 | 6.87 | 01/20/2016 |
| 2,2-Dichloropropane | 5.0 | | **52.2** | 50.00 | 0 | 104.5 | 49.58 | 5.21 | 01/20/2016 |
| 2-Butanone | 25.0 | | **151** | 125.0 | 0 | 121.2 | 142.5 | 6.12 | 01/20/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **53.3** | 50.00 | 0 | 106.6 | 50.55 | 5.26 | 01/20/2016 |
| 2-Chlorotoluene | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 47.30 | 12.88 | 01/20/2016 |
| 2-Hexanone | 25.0 | | **137** | 125.0 | 0 | 109.2 | 121.3 | 11.80 | 01/20/2016 |
| 2-Nitropropane | 50.0 | | **550** | 500.0 | 0 | 110.0 | 539.9 | 1.88 | 01/20/2016 |
| 4-Chlorotoluene | 5.0 | | **53.5** | 50.00 | 0 | 107.1 | 47.77 | 11.39 | 01/20/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **127** | 125.0 | 0 | 101.9 | 111.1 | 13.66 | 01/20/2016 |
| Acetone | 25.0 | | **181** | 125.0 | 0 | 144.9 | 180.0 | 0.65 | 01/20/2016 |
| Acetonitrile | 50.0 | | **556** | 500.0 | 0 | 111.2 | 535.5 | 3.74 | 01/20/2016 |
| Acrolein | 100 | | **454** | 500.0 | 0 | 90.8 | 439.4 | 3.29 | 01/20/2016 |
| Acrylonitrile | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 49.57 | 4.50 | 01/20/2016 |
| Allyl chloride | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 49.95 | 6.86 | 01/20/2016 |
| Benzene | 2.0 | | **55.8** | 50.00 | 0 | 111.5 | 49.26 | 12.36 | 01/20/2016 |
| Bromobenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 46.27 | 9.25 | 01/20/2016 |
| Bromochloromethane | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 48.08 | 3.09 | 01/20/2016 |
| Bromodichloromethane | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 51.08 | 6.86 | 01/20/2016 |
| Bromoform | 5.0 | | **57.1** | 50.00 | 0 | 114.1 | 51.69 | 9.88 | 01/20/2016 |
| Bromomethane | 10.0 | | **44.5** | 50.00 | 0 | 89.0 | 44.44 | 0.16 | 01/20/2016 |
| Carbon disulfide | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 47.04 | 5.96 | 01/20/2016 |
| Carbon tetrachloride | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 50.62 | 8.13 | 01/20/2016 |
| Chlorobenzene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 48.40 | 8.92 | 01/20/2016 |
| Chloroethane | 10.0 | | **40.9** | 50.00 | 0 | 81.8 | 41.65 | 1.84 | 01/20/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16011015

**Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115776** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **49.4** | 50.00 | 0 | 98.7 | 48.08 | 2.61 | 01/20/2016 |
| Chloromethane | 10.0 | | **36.4** | 50.00 | 0 | 72.8 | 35.38 | 2.81 | 01/20/2016 |
| Chloroprene | 20.0 | | **47.0** | 50.00 | 0 | 94.1 | 45.41 | 3.53 | 01/20/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 48.09 | 7.27 | 01/20/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **58.0** | 50.00 | 0 | 116.1 | 53.46 | 8.22 | 01/20/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **44.7** | 50.00 | 0 | 89.5 | 40.31 | 10.42 | 01/20/2016 |
| Cyclohexanone | 50.0 | | **492** | 500.0 | 0 | 98.4 | 499.0 | 1.45 | 01/20/2016 |
| Dibromochloromethane | 5.0 | | **57.1** | 50.00 | 0 | 114.1 | 47.75 | 17.78 | 01/20/2016 |
| Dibromomethane | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 49.20 | 6.43 | 01/20/2016 |
| Dichlorodifluoromethane | 10.0 | | **33.9** | 50.00 | 0 | 67.9 | 32.98 | 2.84 | 01/20/2016 |
| Diisopropyl ether | 2.0 | | **53.3** | 50.00 | 0 | 106.6 | 51.25 | 3.88 | 01/20/2016 |
| Ethyl acetate | 10.0 | | **51.0** | 50.00 | 0 | 101.9 | 48.95 | 4.02 | 01/20/2016 |
| Ethyl ether | 5.0 | | **50.9** | 50.00 | 0 | 101.7 | 47.91 | 5.97 | 01/20/2016 |
| Ethyl methacrylate | 5.0 | | **54.8** | 50.00 | 0 | 109.6 | 45.51 | 18.56 | 01/20/2016 |
| Ethylbenzene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 47.51 | 9.20 | 01/20/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **52.9** | 50.00 | 0 | 105.8 | 50.38 | 4.88 | 01/20/2016 |
| Hexachlorobutadiene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 47.79 | 16.00 | 01/20/2016 |
| Hexachloroethane | 10.0 | | **53.5** | 50.00 | 0 | 107.1 | 46.66 | 13.73 | 01/20/2016 |
| Iodomethane | 5.0 | | **63.8** | 50.00 | 0 | 127.5 | 57.84 | 9.75 | 01/20/2016 |
| Isopropylbenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.7 | 49.76 | 11.50 | 01/20/2016 |
| m,p-Xylenes | 5.0 | | **105** | 100.0 | 0 | 105.1 | 96.25 | 8.79 | 01/20/2016 |
| Methacrylonitrile | 10.0 | | **51.0** | 50.00 | 0 | 101.9 | 48.14 | 5.71 | 01/20/2016 |
| Methyl Methacrylate | 5.0 | | **56.0** | 50.00 | 0 | 112.0 | 53.30 | 4.92 | 01/20/2016 |
| Methyl tert-butyl ether | 2.0 | | **52.9** | 50.00 | 0 | 105.8 | 50.49 | 4.64 | 01/20/2016 |
| Methylacrylate | 10.0 | | **55.8** | 50.00 | 0 | 111.6 | 54.02 | 3.26 | 01/20/2016 |
| Methylene chloride | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 47.24 | 5.36 | 01/20/2016 |
| Naphthalene | 10.0 | | **58.3** | 50.00 | 0 | 116.6 | 51.56 | 12.30 | 01/20/2016 |
| n-Butyl acetate | 25.0 | | **50.8** | 50.00 | 0 | 101.5 | 44.07 | 14.11 | 01/20/2016 |
| n-Butylbenzene | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 48.46 | 10.61 | 01/20/2016 |
| n-Heptane | 20.0 | | **52.8** | 50.00 | 0 | 105.5 | 49.38 | 6.64 | 01/20/2016 |
| n-Hexane | 20.0 | | **51.9** | 50.00 | 0 | 103.8 | 49.49 | 4.77 | 01/20/2016 |
| Nitrobenzene | 50.0 | | **503** | 500.0 | 0 | 100.6 | 448.5 | 11.49 | 01/20/2016 |
| n-Propylbenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 47.15 | 12.02 | 01/20/2016 |
| o-Xylene | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 47.74 | 10.31 | 01/20/2016 |
| Pentachloroethane | 20.0 | | **56.4** | 50.00 | 0 | 112.8 | 50.73 | 10.55 | 01/20/2016 |
| p-Isopropyltoluene | 5.0 | | **57.0** | 50.00 | 0 | 113.9 | 51.51 | 10.03 | 01/20/2016 |
| Propionitrile | 50.0 | | **541** | 500.0 | 0 | 108.2 | 515.5 | 4.84 | 01/20/2016 |
| sec-Butylbenzene | 5.0 | | **56.5** | 50.00 | 0 | 113.0 | 50.03 | 12.18 | 01/20/2016 |
| Styrene | 5.0 | S | **57.2** | 50.00 | 0 | 114.3 | 51.23 | 10.96 | 01/20/2016 |
| tert-Amyl methyl ether | 2.0 | | **56.0** | 50.00 | 0 | 112.0 | 51.37 | 8.62 | 01/20/2016 |
| tert-Butyl alcohol | 25.0 | | **282** | 250.0 | 0 | 112.9 | 272.8 | 3.44 | 01/20/2016 |
| tert-Butylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 46.20 | 11.12 | 01/20/2016 |
| Tetrachloroethene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 46.43 | 12.74 | 01/20/2016 |
| Tetrahydrofuran | 20.0 | | **52.9** | 50.00 | 0 | 105.8 | 51.07 | 3.52 | 01/20/2016 |
| Toluene | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 45.35 | 11.96 | 01/20/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **50.7** | 50.00 | 0 | 101.3 | 47.98 | 5.45 | 01/20/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **55.4** | 50.00 | 0 | 110.8 | 47.26 | 15.86 | 01/20/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16011015
**Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115776** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **49.6** | 50.00 | 0 | 99.1 | 44.23 | 11.39 | 01/20/2016 |
| Trichloroethene | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 49.65 | 7.67 | 01/20/2016 |
| Trichlorofluoromethane | 5.0 | | **51.9** | 50.00 | 0 | 103.7 | 48.51 | 6.69 | 01/20/2016 |
| Vinyl acetate | 10.0 | | **54.5** | 50.00 | 0 | 109.1 | 51.51 | 5.71 | 01/20/2016 |
| Vinyl chloride | 2.0 | | **43.0** | 50.00 | 0 | 86.0 | 41.82 | 2.76 | 01/20/2016 |
| Xylenes, Total | 5.0 | | **158** | 150.0 | 0 | 105.4 | 144.0 | 9.30 | 01/20/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **102** | 100.0 | 0 | 102.4 | 96.07 | 6.37 | 01/20/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **113** | 100.0 | 0 | 113.4 | 100.7 | 11.88 | 01/20/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **94.3** | 100.0 | 0 | 94.3 | 84.54 | 10.93 | 01/20/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **45.7** | 50.00 | | 91.4 | | | 01/20/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.6** | 50.00 | | 99.3 | | | 01/20/2016 |
| Surr: Toluene-d8 | | | **46.9** | 50.00 | | 93.8 | | | 01/20/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115776** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.1** | 50.00 | 0 | 100.3 | 81.9 | 115 | 01/20/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **49.6** | 50.00 | 0 | 99.1 | 79.4 | 124 | 01/20/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **46.3** | 50.00 | 0 | 92.7 | 74.7 | 116 | 01/20/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **49.2** | 50.00 | 0 | 98.4 | 72.9 | 121 | 01/20/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **44.5** | 50.00 | 0 | 89.0 | 80.8 | 111 | 01/20/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **108** | 125.0 | 0 | 86.2 | 66.3 | 130 | 01/20/2016 |
| 1,1-Dichloroethane | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 79.4 | 114 | 01/20/2016 |
| 1,1-Dichloroethene | 5.0 | | **47.7** | 50.00 | 0 | 95.3 | 74.1 | 117 | 01/20/2016 |
| 1,1-Dichloropropene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 81.7 | 116 | 01/20/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 79.7 | 118 | 01/20/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **45.0** | 50.00 | 0 | 90.0 | 77.3 | 112 | 01/20/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 79.9 | 119 | 01/20/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **48.0** | 50.00 | 0 | 96.1 | 79.3 | 118 | 01/20/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 78.7 | 115 | 01/20/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **46.1** | 50.00 | 0 | 92.2 | 76 | 122 | 01/20/2016 |
| 1,2-Dibromoethane | 5.0 | | **46.5** | 50.00 | 0 | 92.9 | 80.8 | 114 | 01/20/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 78.3 | 112 | 01/20/2016 |
| 1,2-Dichloroethane | 5.0 | | **46.6** | 50.00 | 0 | 93.3 | 70.6 | 118 | 01/20/2016 |
| 1,2-Dichloropropane | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 79.6 | 113 | 01/20/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.1** | 50.00 | 0 | 100.1 | 77.5 | 115 | 01/20/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 78.6 | 117 | 01/20/2016 |
| 1,3-Dichloropropane | 5.0 | | **43.2** | 50.00 | 0 | 86.4 | 78.8 | 112 | 01/20/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **47.9** | 50.00 | 0 | 95.7 | 77.8 | 114 | 01/20/2016 |
| 1-Chlorobutane | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 78.6 | 115 | 01/20/2016 |
| 2,2-Dichloropropane | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 74.9 | 130 | 01/20/2016 |
| 2-Butanone | 25.0 | | **142** | 125.0 | 0 | 114.0 | 70.7 | 136 | 01/20/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **50.6** | 50.00 | 0 | 101.1 | 52.5 | 145 | 01/20/2016 |
| 2-Chlorotoluene | 5.0 | | **47.3** | 50.00 | 0 | 94.6 | 77.4 | 114 | 01/20/2016 |
| 2-Hexanone | 25.0 | | **121** | 125.0 | 0 | 97.1 | 73.3 | 125 | 01/20/2016 |
| 2-Nitropropane | 50.0 | | **540** | 500.0 | 0 | 108.0 | 67.3 | 139 | 01/20/2016 |
| 4-Chlorotoluene | 5.0 | | **47.8** | 50.00 | 0 | 95.5 | 78.3 | 115 | 01/20/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **111** | 125.0 | 0 | 88.9 | 76.3 | 122 | 01/20/2016 |
| Acetone | 25.0 | | **180** | 125.0 | 0 | 144.0 | 56.4 | 147 | 01/20/2016 |
| Acetonitrile | 50.0 | | **535** | 500.0 | 0 | 107.1 | 59.3 | 129 | 01/20/2016 |
| Acrolein | 100 | | **439** | 500.0 | 0 | 87.9 | 1 | 201 | 01/20/2016 |
| Acrylonitrile | 5.0 | | **49.6** | 50.00 | 0 | 99.1 | 74.1 | 128 | 01/20/2016 |
| Allyl chloride | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 71.5 | 123 | 01/20/2016 |
| Benzene | 2.0 | | **49.3** | 50.00 | 0 | 98.5 | 80 | 114 | 01/20/2016 |
| Bromobenzene | 5.0 | | **46.3** | 50.00 | 0 | 92.5 | 73.2 | 118 | 01/20/2016 |
| Bromochloromethane | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 73.3 | 121 | 01/20/2016 |
| Bromodichloromethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 81.6 | 121 | 01/20/2016 |
| Bromoform | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 83.1 | 127 | 01/20/2016 |
| Bromomethane | 10.0 | | **44.4** | 50.00 | 0 | 88.9 | 44.4 | 154 | 01/20/2016 |
| Carbon disulfide | 5.0 | | **47.0** | 50.00 | 0 | 94.1 | 73.2 | 118 | 01/20/2016 |
| Carbon tetrachloride | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 79.4 | 130 | 01/20/2016 |
| Chlorobenzene | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 81.4 | 110 | 01/20/2016 |
| Chloroethane | 10.0 | | **41.6** | 50.00 | 0 | 83.3 | 52.1 | 137 | 01/20/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16011015

**Client Project:** NGA 2015-0461.21

**Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115776** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 82.7 | 116 | 01/20/2016 |
| Chloromethane | 10.0 | | **35.4** | 50.00 | 0 | 70.8 | 48.2 | 144 | 01/20/2016 |
| Chloroprene | 20.0 | | **45.4** | 50.00 | 0 | 90.8 | 80.6 | 126 | 01/20/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 78.2 | 116 | 01/20/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **53.5** | 50.00 | 0 | 106.9 | 83 | 119 | 01/20/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **40.3** | 50.00 | 0 | 80.6 | 60.7 | 137 | 01/20/2016 |
| Cyclohexanone | 50.0 | | **499** | 500.0 | 0 | 99.8 | 54.2 | 145 | 01/20/2016 |
| Dibromochloromethane | 5.0 | | **47.8** | 50.00 | 0 | 95.5 | 81.2 | 121 | 01/20/2016 |
| Dibromomethane | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 78.3 | 118 | 01/20/2016 |
| Dichlorodifluoromethane | 10.0 | | **33.0** | 50.00 | 0 | 66.0 | 20.6 | 154 | 01/20/2016 |
| Diisopropyl ether | 2.0 | | **51.2** | 50.00 | 0 | 102.5 | 73.1 | 116 | 01/20/2016 |
| Ethyl acetate | 10.0 | | **49.0** | 50.00 | 0 | 97.9 | 73.1 | 116 | 01/20/2016 |
| Ethyl ether | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 75.2 | 109 | 01/20/2016 |
| Ethyl methacrylate | 5.0 | | **45.5** | 50.00 | 0 | 91.0 | 80.1 | 113 | 01/20/2016 |
| Ethylbenzene | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 77.2 | 113 | 01/20/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **50.4** | 50.00 | 0 | 100.8 | 75 | 118 | 01/20/2016 |
| Hexachlorobutadiene | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 77.3 | 123 | 01/20/2016 |
| Hexachloroethane | 10.0 | | **46.7** | 50.00 | 0 | 93.3 | 74.6 | 117 | 01/20/2016 |
| Iodomethane | 5.0 | | **57.8** | 50.00 | 0 | 115.7 | 61.3 | 140 | 01/20/2016 |
| Isopropylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 81.3 | 114 | 01/20/2016 |
| m,p-Xylenes | 5.0 | | **96.2** | 100.0 | 0 | 96.2 | 79.6 | 113 | 01/20/2016 |
| Methacrylonitrile | 10.0 | | **48.1** | 50.00 | 0 | 96.3 | 77.2 | 125 | 01/20/2016 |
| Methyl Methacrylate | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 74.2 | 121 | 01/20/2016 |
| Methyl tert-butyl ether | 2.0 | | **50.5** | 50.00 | 0 | 101.0 | 76.8 | 117 | 01/20/2016 |
| Methylacrylate | 10.0 | | **54.0** | 50.00 | 0 | 108.0 | 78 | 124 | 01/20/2016 |
| Methylene chloride | 5.0 | | **47.2** | 50.00 | 0 | 94.5 | 74.1 | 114 | 01/20/2016 |
| Naphthalene | 10.0 | | **51.6** | 50.00 | 0 | 103.1 | 77.9 | 122 | 01/20/2016 |
| n-Butyl acetate | 25.0 | | **44.1** | 50.00 | 0 | 88.1 | 74 | 120 | 01/20/2016 |
| n-Butylbenzene | 5.0 | | **48.5** | 50.00 | 0 | 96.9 | 71.1 | 120 | 01/20/2016 |
| n-Heptane | 20.0 | | **49.4** | 50.00 | 0 | 98.8 | 67.4 | 129 | 01/20/2016 |
| n-Hexane | 20.0 | | **49.5** | 50.00 | 0 | 99.0 | 68.4 | 126 | 01/20/2016 |
| Nitrobenzene | 50.0 | | **449** | 500.0 | 0 | 89.7 | 37.9 | 181 | 01/20/2016 |
| n-Propylbenzene | 5.0 | | **47.2** | 50.00 | 0 | 94.3 | 74.6 | 118 | 01/20/2016 |
| o-Xylene | 5.0 | | **47.7** | 50.00 | 0 | 95.5 | 80.1 | 111 | 01/20/2016 |
| Pentachloroethane | 20.0 | | **50.7** | 50.00 | 0 | 101.5 | 78.8 | 117 | 01/20/2016 |
| p-Isopropyltoluene | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 77.6 | 118 | 01/20/2016 |
| Propionitrile | 50.0 | | **515** | 500.0 | 0 | 103.1 | 72.9 | 137 | 01/20/2016 |
| sec-Butylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 74.5 | 119 | 01/20/2016 |
| Styrene | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 83.4 | 113 | 01/20/2016 |
| tert-Amyl methyl ether | 2.0 | | **51.4** | 50.00 | 0 | 102.7 | 78.7 | 117 | 01/20/2016 |
| tert-Butyl alcohol | 25.0 | | **273** | 250.0 | 0 | 109.1 | 58.1 | 139 | 01/20/2016 |
| tert-Butylbenzene | 5.0 | | **46.2** | 50.00 | 0 | 92.4 | 75.9 | 114 | 01/20/2016 |
| Tetrachloroethene | 5.0 | | **46.4** | 50.00 | 0 | 92.9 | 72.5 | 125 | 01/20/2016 |
| Tetrahydrofuran | 20.0 | | **51.1** | 50.00 | 0 | 102.1 | 69.6 | 125 | 01/20/2016 |
| Toluene | 5.0 | | **45.4** | 50.00 | 0 | 90.7 | 77.5 | 113 | 01/20/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 79 | 114 | 01/20/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **47.3** | 50.00 | 0 | 94.5 | 78 | 115 | 01/20/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115776 **SampType:** LCS Units **µg/L**

SampID: LCS-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **44.2** | 50.00 | 0 | 88.5 | 63.3 | 128 | 01/20/2016 |
| Trichloroethene | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 84.4 | 114 | 01/20/2016 |
| Trichlorofluoromethane | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 75.2 | 132 | 01/20/2016 |
| Vinyl acetate | 10.0 | | **51.5** | 50.00 | 0 | 103.0 | 64.5 | 127 | 01/20/2016 |
| Vinyl chloride | 2.0 | | **41.8** | 50.00 | 0 | 83.6 | 58 | 134 | 01/20/2016 |
| Xylenes, Total | 5.0 | | **144** | 150.0 | 0 | 96.0 | 80.1 | 111 | 01/20/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **96.1** | 100.0 | 0 | 96.1 | 78.2 | 116 | 01/20/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **101** | 100.0 | 0 | 100.7 | 78 | 119 | 01/20/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **84.5** | 100.0 | 0 | 84.5 | 60.7 | 137 | 01/20/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.3** | 50.00 | | 96.6 | 74.7 | 129 | 01/20/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.1** | 50.00 | | 98.2 | 86 | 119 | 01/20/2016 |
| Surr: Toluene-d8 | | | **45.8** | 50.00 | | 91.6 | 84.1 | 114 | 01/20/2016 |

**Batch** 115776 **SampType:** LCSGD Units **µg/L** RPD Limit **20**

SampID: LCSGD-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2270** | 2000 | 0 | 113.7 | 2062 | 9.75 | 01/20/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.5** | 50.00 | | 95.1 | | | 01/20/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.9** | 50.00 | | 99.7 | | | 01/20/2016 |
| Surr: Toluene-d8 | | | **47.4** | 50.00 | | 94.9 | | | 01/20/2016 |

**Batch** 115776 **SampType:** LCSG Units **µg/L**

SampID: LCSG-N160120-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2060** | 2000 | 0 | 103.1 | 70 | 130 | 01/20/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **46.1** | 50.00 | | 92.2 | 74.7 | 129 | 01/20/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.1** | 50.00 | | 100.2 | 86 | 119 | 01/20/2016 |
| Surr: Toluene-d8 | | | **47.3** | 50.00 | | 94.6 | 84.3 | 114 | 01/20/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115777** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **ND** | | | | | | 01/21/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/21/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 2-Butanone | 25.0 | | **ND** | | | | | | 01/21/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **ND** | | | | | | 01/21/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 2-Hexanone | 25.0 | | **ND** | | | | | | 01/21/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/21/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **ND** | | | | | | 01/21/2016 |
| Acetone | 25.0 | | **ND** | | | | | | 01/21/2016 |
| Acetonitrile | 50.0 | | **ND** | | | | | | 01/21/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/21/2016 |
| Acrylonitrile | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Benzene | 2.0 | | **ND** | | | | | | 01/21/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/21/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/21/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115777 **SampType:** MBLK Units **µg/L**

SampID: MBLK-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Chloromethane | 10.0 | | **ND** | | | | | | 01/21/2016 |
| Chloroprene | 20.0 | | **ND** | | | | | | 01/21/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Cyclohexanone | 50.0 | | **ND** | | | | | | 01/21/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/21/2016 |
| Diisopropyl ether | 2.0 | | **ND** | | | | | | 01/21/2016 |
| Ethyl acetate | 10.0 | | **ND** | | | | | | 01/21/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **ND** | | | | | | 01/21/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Hexachloroethane | 10.0 | | **ND** | | | | | | 01/21/2016 |
| Iodomethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Methacrylonitrile | 10.0 | | **ND** | | | | | | 01/21/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/21/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/21/2016 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/21/2016 |
| n-Butyl acetate | 25.0 | | **ND** | | | | | | 01/21/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/21/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/21/2016 |
| Nitrobenzene | 50.0 | | **ND** | | | | | | 01/21/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Pentachloroethane | 20.0 | | **ND** | | | | | | 01/21/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/21/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| tert-Amyl methyl ether | 2.0 | | **ND** | | | | | | 01/21/2016 |
| tert-Butyl alcohol | 25.0 | | **ND** | | | | | | 01/21/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Tetrahydrofuran | 20.0 | | **ND** | | | | | | 01/21/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/21/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115777** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **ND** | | | | | | 01/21/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/21/2016 |
| Vinyl acetate | 10.0 | | **ND** | | | | | | 01/21/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/21/2016 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 01/21/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 01/21/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/21/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **45.7** | 50.00 | | 91.4 | 74.7 | 129 | 01/21/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.6** | 50.00 | | 99.3 | 86 | 119 | 01/21/2016 |
| Surr: Toluene-d8 | | | **45.9** | 50.00 | | 91.8 | 84.3 | 114 | 01/21/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115777** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 49.03 | 4.93 | 01/20/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **53.1** | 50.00 | 0 | 106.1 | 47.01 | 12.11 | 01/20/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 44.01 | 8.63 | 01/20/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **50.7** | 50.00 | 0 | 101.4 | 44.26 | 13.56 | 01/20/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 46.76 | 6.76 | 01/20/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **111** | 125.0 | 0 | 88.9 | 100.4 | 10.07 | 01/20/2016 |
| 1,1-Dichloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.3 | 46.21 | 9.17 | 01/20/2016 |
| 1,1-Dichloroethene | 5.0 | | **49.2** | 50.00 | 0 | 98.5 | 43.49 | 12.38 | 01/20/2016 |
| 1,1-Dichloropropene | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 47.23 | 10.23 | 01/20/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 46.42 | 10.63 | 01/20/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **46.7** | 50.00 | 0 | 93.4 | 41.19 | 12.58 | 01/20/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 46.26 | 9.96 | 01/20/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 45.03 | 14.98 | 01/20/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 47.50 | 11.41 | 01/20/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 42.22 | 14.66 | 01/20/2016 |
| 1,2-Dibromoethane | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 47.20 | 7.23 | 01/20/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 47.03 | 9.44 | 01/20/2016 |
| 1,2-Dichloroethane | 5.0 | | **46.7** | 50.00 | 0 | 93.5 | 45.96 | 1.68 | 01/20/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 47.51 | 8.33 | 01/20/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 47.52 | 11.63 | 01/20/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 46.19 | 9.11 | 01/20/2016 |
| 1,3-Dichloropropane | 5.0 | | **48.5** | 50.00 | 0 | 97.1 | 45.49 | 6.47 | 01/20/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 46.18 | 7.48 | 01/20/2016 |
| 1-Chlorobutane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 45.67 | 10.24 | 01/20/2016 |
| 2,2-Dichloropropane | 5.0 | | **40.2** | 50.00 | 0 | 80.4 | 47.77 | 17.16 | 01/20/2016 |
| 2-Butanone | 25.0 | | **128** | 125.0 | 0 | 102.6 | 132.6 | 3.30 | 01/20/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **54.3** | 50.00 | 0 | 108.6 | 48.51 | 11.30 | 01/20/2016 |
| 2-Chlorotoluene | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 45.96 | 8.30 | 01/20/2016 |
| 2-Hexanone | 25.0 | | **123** | 125.0 | 0 | 98.5 | 114.9 | 6.83 | 01/20/2016 |
| 2-Nitropropane | 50.0 | | **531** | 500.0 | 0 | 106.1 | 510.7 | 3.82 | 01/20/2016 |
| 4-Chlorotoluene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 45.61 | 10.16 | 01/20/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **120** | 125.0 | 0 | 96.0 | 106.2 | 12.20 | 01/20/2016 |
| Acetone | 25.0 | | **135** | 125.0 | 0 | 107.9 | 165.9 | 20.65 | 01/20/2016 |
| Acetonitrile | 50.0 | | **481** | 500.0 | 0 | 96.2 | 474.1 | 1.44 | 01/20/2016 |
| Acrolein | 100 | | **466** | 500.0 | 0 | 93.2 | 408.9 | 13.06 | 01/20/2016 |
| Acrylonitrile | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 47.13 | 5.75 | 01/20/2016 |
| Allyl chloride | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 46.58 | 9.08 | 01/20/2016 |
| Benzene | 2.0 | | **52.5** | 50.00 | 0 | 105.0 | 48.64 | 7.67 | 01/20/2016 |
| Bromobenzene | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 43.37 | 10.74 | 01/20/2016 |
| Bromochloromethane | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 46.93 | 5.71 | 01/20/2016 |
| Bromodichloromethane | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 50.75 | 3.56 | 01/20/2016 |
| Bromoform | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 48.81 | 7.11 | 01/20/2016 |
| Bromomethane | 10.0 | | **45.0** | 50.00 | 0 | 89.9 | 44.24 | 1.64 | 01/20/2016 |
| Carbon disulfide | 5.0 | | **48.1** | 50.00 | 0 | 96.3 | 43.05 | 11.14 | 01/20/2016 |
| Carbon tetrachloride | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 48.23 | 11.38 | 01/20/2016 |
| Chlorobenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 46.21 | 7.64 | 01/20/2016 |
| Chloroethane | 10.0 | | **42.3** | 50.00 | 0 | 84.7 | 40.92 | 3.41 | 01/20/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16011015

**Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115777 **SampType:** LCSD Units **µg/L** RPD Limit **40**

SampID: LCSD-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **50.1** | 50.00 | 0 | 100.1 | 47.05 | 6.20 | 01/20/2016 |
| Chloromethane | 10.0 | | **37.4** | 50.00 | 0 | 74.7 | 36.32 | 2.82 | 01/20/2016 |
| Chloroprene | 20.0 | | **48.1** | 50.00 | 0 | 96.1 | 43.60 | 9.73 | 01/20/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 46.69 | 3.18 | 01/20/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **53.7** | 50.00 | 0 | 107.3 | 54.01 | 0.63 | 01/20/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **38.1** | 50.00 | 0 | 76.2 | 37.39 | 1.91 | 01/20/2016 |
| Cyclohexanone | 50.0 | | **454** | 500.0 | 0 | 90.8 | 384.4 | 16.63 | 01/20/2016 |
| Dibromochloromethane | 5.0 | | **53.5** | 50.00 | 0 | 107.1 | 49.64 | 7.54 | 01/20/2016 |
| Dibromomethane | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 48.00 | 2.89 | 01/20/2016 |
| Dichlorodifluoromethane | 10.0 | | **34.8** | 50.00 | 0 | 69.6 | 29.63 | 16.05 | 01/20/2016 |
| Diisopropyl ether | 2.0 | | **53.3** | 50.00 | 0 | 106.6 | 51.12 | 4.18 | 01/20/2016 |
| Ethyl acetate | 10.0 | | **49.8** | 50.00 | 0 | 99.7 | 45.30 | 9.52 | 01/20/2016 |
| Ethyl ether | 5.0 | | **47.7** | 50.00 | 0 | 95.3 | 44.39 | 7.13 | 01/20/2016 |
| Ethyl methacrylate | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 45.87 | 11.22 | 01/20/2016 |
| Ethylbenzene | 5.0 | | **49.3** | 50.00 | 0 | 98.5 | 46.29 | 6.24 | 01/20/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **53.0** | 50.00 | 0 | 106.0 | 49.81 | 6.24 | 01/20/2016 |
| Hexachlorobutadiene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 44.00 | 16.88 | 01/20/2016 |
| Hexachloroethane | 10.0 | | **50.8** | 50.00 | 0 | 101.5 | 44.00 | 14.25 | 01/20/2016 |
| Iodomethane | 5.0 | | **57.8** | 50.00 | 0 | 115.7 | 48.51 | 17.56 | 01/20/2016 |
| Isopropylbenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 48.54 | 9.87 | 01/20/2016 |
| m,p-Xylenes | 5.0 | | **99.9** | 100.0 | 0 | 99.9 | 94.37 | 5.72 | 01/20/2016 |
| Methacrylonitrile | 10.0 | | **51.7** | 50.00 | 0 | 103.4 | 45.38 | 13.06 | 01/20/2016 |
| Methyl Methacrylate | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 50.04 | 7.43 | 01/20/2016 |
| Methyl tert-butyl ether | 2.0 | | **51.8** | 50.00 | 0 | 103.5 | 49.19 | 5.07 | 01/20/2016 |
| Methylacrylate | 10.0 | | **55.0** | 50.00 | 0 | 110.1 | 51.22 | 7.19 | 01/20/2016 |
| Methylene chloride | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 45.77 | 5.48 | 01/20/2016 |
| Naphthalene | 10.0 | | **53.7** | 50.00 | 0 | 107.5 | 46.89 | 13.60 | 01/20/2016 |
| n-Butyl acetate | 25.0 | | **49.0** | 50.00 | 0 | 98.1 | 44.08 | 10.67 | 01/20/2016 |
| n-Butylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 46.55 | 8.83 | 01/20/2016 |
| n-Heptane | 20.0 | | **44.0** | 50.00 | 0 | 88.0 | 46.68 | 5.91 | 01/20/2016 |
| n-Hexane | 20.0 | | **48.6** | 50.00 | 0 | 97.2 | 46.17 | 5.09 | 01/20/2016 |
| Nitrobenzene | 50.0 | | **438** | 500.0 | 0 | 87.5 | 359.5 | 19.59 | 01/20/2016 |
| n-Propylbenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 45.46 | 10.46 | 01/20/2016 |
| o-Xylene | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 47.15 | 5.81 | 01/20/2016 |
| Pentachloroethane | 20.0 | S | **37.7** | 50.00 | 0 | 75.5 | 47.49 | 22.88 | 01/20/2016 |
| p-Isopropyltoluene | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 47.49 | 14.07 | 01/20/2016 |
| Propionitrile | 50.0 | | **516** | 500.0 | 0 | 103.3 | 478.1 | 7.70 | 01/20/2016 |
| sec-Butylbenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 46.60 | 13.39 | 01/20/2016 |
| Styrene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 49.40 | 7.39 | 01/20/2016 |
| tert-Amyl methyl ether | 2.0 | | **52.9** | 50.00 | 0 | 105.8 | 50.84 | 3.95 | 01/20/2016 |
| tert-Butyl alcohol | 25.0 | | **259** | 250.0 | 0 | 103.7 | 213.8 | 19.19 | 01/20/2016 |
| tert-Butylbenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 44.69 | 10.98 | 01/20/2016 |
| Tetrachloroethene | 5.0 | S | **63.6** | 50.00 | 0 | 127.2 | 46.33 | 31.44 | 01/20/2016 |
| Tetrahydrofuran | 20.0 | | **51.0** | 50.00 | 0 | 102.0 | 46.68 | 8.88 | 01/20/2016 |
| Toluene | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 45.15 | 7.81 | 01/20/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 46.01 | 8.69 | 01/20/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 48.72 | 2.65 | 01/20/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16011015
**Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115777** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **42.7** | 50.00 | 0 | 85.3 | 40.62 | 4.92 | 01/20/2016 |
| Trichloroethene | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 47.22 | 10.74 | 01/20/2016 |
| Trichlorofluoromethane | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 47.12 | 12.90 | 01/20/2016 |
| Vinyl acetate | 10.0 | | **48.7** | 50.00 | 0 | 97.5 | 49.74 | 2.05 | 01/20/2016 |
| Vinyl chloride | 2.0 | | **44.9** | 50.00 | 0 | 89.7 | 41.43 | 7.97 | 01/20/2016 |
| Xylenes, Total | 5.0 | | **150** | 150.0 | 0 | 99.9 | 141.5 | 5.75 | 01/20/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **98.4** | 100.0 | 0 | 98.4 | 92.70 | 5.96 | 01/20/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **104** | 100.0 | 0 | 103.7 | 102.7 | 0.94 | 01/20/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **80.8** | 100.0 | 0 | 80.8 | 78.01 | 3.49 | 01/20/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **46.9** | 50.00 | | 93.8 | | | 01/20/2016 |
| Surr: 4-Bromofluorobenzene | | | **48.8** | 50.00 | | 97.5 | | | 01/20/2016 |
| Surr: Toluene-d8 | | | **46.4** | 50.00 | | 92.8 | | | 01/20/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115777 **SampType:** LCS Units **µg/L**

SampID: LCS-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 81.9 | 115 | 01/21/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **47.0** | 50.00 | 0 | 94.0 | 79.4 | 124 | 01/21/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **44.0** | 50.00 | 0 | 88.0 | 74.7 | 116 | 01/21/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **44.3** | 50.00 | 0 | 88.5 | 72.9 | 121 | 01/21/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **46.8** | 50.00 | 0 | 93.5 | 80.8 | 111 | 01/21/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **100** | 125.0 | 0 | 80.4 | 66.3 | 130 | 01/21/2016 |
| 1,1-Dichloroethane | 5.0 | | **46.2** | 50.00 | 0 | 92.4 | 79.4 | 114 | 01/21/2016 |
| 1,1-Dichloroethene | 5.0 | | **43.5** | 50.00 | 0 | 87.0 | 74.1 | 117 | 01/21/2016 |
| 1,1-Dichloropropene | 5.0 | | **47.2** | 50.00 | 0 | 94.5 | 81.7 | 116 | 01/21/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **46.4** | 50.00 | 0 | 92.8 | 79.7 | 118 | 01/21/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **41.2** | 50.00 | 0 | 82.4 | 77.3 | 112 | 01/21/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **46.3** | 50.00 | 0 | 92.5 | 79.9 | 119 | 01/21/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **45.0** | 50.00 | 0 | 90.1 | 79.3 | 118 | 01/21/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 78.7 | 115 | 01/21/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **42.2** | 50.00 | 0 | 84.4 | 76 | 122 | 01/21/2016 |
| 1,2-Dibromoethane | 5.0 | | **47.2** | 50.00 | 0 | 94.4 | 80.8 | 114 | 01/21/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **47.0** | 50.00 | 0 | 94.1 | 78.3 | 112 | 01/21/2016 |
| 1,2-Dichloroethane | 5.0 | | **46.0** | 50.00 | 0 | 91.9 | 70.6 | 118 | 01/21/2016 |
| 1,2-Dichloropropane | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 79.6 | 113 | 01/21/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 77.5 | 115 | 01/21/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **46.2** | 50.00 | 0 | 92.4 | 78.6 | 117 | 01/21/2016 |
| 1,3-Dichloropropane | 5.0 | | **45.5** | 50.00 | 0 | 91.0 | 78.8 | 112 | 01/21/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **46.2** | 50.00 | 0 | 92.4 | 77.8 | 114 | 01/21/2016 |
| 1-Chlorobutane | 5.0 | | **45.7** | 50.00 | 0 | 91.3 | 78.6 | 115 | 01/21/2016 |
| 2,2-Dichloropropane | 5.0 | | **47.8** | 50.00 | 0 | 95.5 | 74.9 | 130 | 01/21/2016 |
| 2-Butanone | 25.0 | | **133** | 125.0 | 0 | 106.1 | 70.7 | 136 | 01/21/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **48.5** | 50.00 | 0 | 97.0 | 52.5 | 145 | 01/21/2016 |
| 2-Chlorotoluene | 5.0 | | **46.0** | 50.00 | 0 | 91.9 | 77.4 | 114 | 01/21/2016 |
| 2-Hexanone | 25.0 | | **115** | 125.0 | 0 | 92.0 | 73.3 | 125 | 01/21/2016 |
| 2-Nitropropane | 50.0 | | **511** | 500.0 | 0 | 102.1 | 67.3 | 139 | 01/21/2016 |
| 4-Chlorotoluene | 5.0 | | **45.6** | 50.00 | 0 | 91.2 | 78.3 | 115 | 01/21/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **106** | 125.0 | 0 | 85.0 | 76.3 | 122 | 01/21/2016 |
| Acetone | 25.0 | | **166** | 125.0 | 0 | 132.7 | 56.4 | 147 | 01/21/2016 |
| Acetonitrile | 50.0 | | **474** | 500.0 | 0 | 94.8 | 59.3 | 129 | 01/21/2016 |
| Acrolein | 100 | | **409** | 500.0 | 0 | 81.8 | 1 | 201 | 01/21/2016 |
| Acrylonitrile | 5.0 | | **47.1** | 50.00 | 0 | 94.3 | 74.1 | 128 | 01/21/2016 |
| Allyl chloride | 5.0 | | **46.6** | 50.00 | 0 | 93.2 | 71.5 | 123 | 01/21/2016 |
| Benzene | 2.0 | | **48.6** | 50.00 | 0 | 97.3 | 80 | 114 | 01/21/2016 |
| Bromobenzene | 5.0 | | **43.4** | 50.00 | 0 | 86.7 | 73.2 | 118 | 01/21/2016 |
| Bromochloromethane | 5.0 | | **46.9** | 50.00 | 0 | 93.9 | 73.3 | 121 | 01/21/2016 |
| Bromodichloromethane | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 81.6 | 121 | 01/21/2016 |
| Bromoform | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 83.1 | 127 | 01/21/2016 |
| Bromomethane | 10.0 | | **44.2** | 50.00 | 0 | 88.5 | 44.4 | 154 | 01/21/2016 |
| Carbon disulfide | 5.0 | | **43.0** | 50.00 | 0 | 86.1 | 73.2 | 118 | 01/21/2016 |
| Carbon tetrachloride | 5.0 | | **48.2** | 50.00 | 0 | 96.5 | 79.4 | 130 | 01/21/2016 |
| Chlorobenzene | 5.0 | | **46.2** | 50.00 | 0 | 92.4 | 81.4 | 110 | 01/21/2016 |
| Chloroethane | 10.0 | | **40.9** | 50.00 | 0 | 81.8 | 52.1 | 137 | 01/21/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115777 **SampType:** LCS Units **µg/L**

SampID: LCS-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **47.0** | 50.00 | 0 | 94.1 | 82.7 | 116 | 01/21/2016 |
| Chloromethane | 10.0 | | **36.3** | 50.00 | 0 | 72.6 | 48.2 | 144 | 01/21/2016 |
| Chloroprene | 20.0 | | **43.6** | 50.00 | 0 | 87.2 | 80.6 | 126 | 01/21/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **46.7** | 50.00 | 0 | 93.4 | 78.2 | 116 | 01/21/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 83 | 119 | 01/21/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **37.4** | 50.00 | 0 | 74.8 | 60.7 | 137 | 01/21/2016 |
| Cyclohexanone | 50.0 | | **384** | 500.0 | 0 | 76.9 | 54.2 | 145 | 01/21/2016 |
| Dibromochloromethane | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 81.2 | 121 | 01/21/2016 |
| Dibromomethane | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 78.3 | 118 | 01/21/2016 |
| Dichlorodifluoromethane | 10.0 | | **29.6** | 50.00 | 0 | 59.3 | 20.6 | 154 | 01/21/2016 |
| Diisopropyl ether | 2.0 | | **51.1** | 50.00 | 0 | 102.2 | 73.1 | 116 | 01/21/2016 |
| Ethyl acetate | 10.0 | | **45.3** | 50.00 | 0 | 90.6 | 73.1 | 116 | 01/21/2016 |
| Ethyl ether | 5.0 | | **44.4** | 50.00 | 0 | 88.8 | 75.2 | 109 | 01/21/2016 |
| Ethyl methacrylate | 5.0 | | **45.9** | 50.00 | 0 | 91.7 | 80.1 | 113 | 01/21/2016 |
| Ethylbenzene | 5.0 | | **46.3** | 50.00 | 0 | 92.6 | 77.2 | 113 | 01/21/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **49.8** | 50.00 | 0 | 99.6 | 75 | 118 | 01/21/2016 |
| Hexachlorobutadiene | 5.0 | | **44.0** | 50.00 | 0 | 88.0 | 77.3 | 123 | 01/21/2016 |
| Hexachloroethane | 10.0 | | **44.0** | 50.00 | 0 | 88.0 | 74.6 | 117 | 01/21/2016 |
| Iodomethane | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 61.3 | 140 | 01/21/2016 |
| Isopropylbenzene | 5.0 | | **48.5** | 50.00 | 0 | 97.1 | 81.3 | 114 | 01/21/2016 |
| m,p-Xylenes | 5.0 | | **94.4** | 100.0 | 0 | 94.4 | 79.6 | 113 | 01/21/2016 |
| Methacrylonitrile | 10.0 | | **45.4** | 50.00 | 0 | 90.8 | 77.2 | 125 | 01/21/2016 |
| Methyl Methacrylate | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 74.2 | 121 | 01/21/2016 |
| Methyl tert-butyl ether | 2.0 | | **49.2** | 50.00 | 0 | 98.4 | 76.8 | 117 | 01/21/2016 |
| Methylacrylate | 10.0 | | **51.2** | 50.00 | 0 | 102.4 | 78 | 124 | 01/21/2016 |
| Methylene chloride | 5.0 | | **45.8** | 50.00 | 0 | 91.5 | 74.1 | 114 | 01/21/2016 |
| Naphthalene | 10.0 | | **46.9** | 50.00 | 0 | 93.8 | 77.9 | 122 | 01/21/2016 |
| n-Butyl acetate | 25.0 | | **44.1** | 50.00 | 0 | 88.2 | 74 | 120 | 01/21/2016 |
| n-Butylbenzene | 5.0 | | **46.6** | 50.00 | 0 | 93.1 | 71.1 | 120 | 01/21/2016 |
| n-Heptane | 20.0 | | **46.7** | 50.00 | 0 | 93.4 | 67.4 | 129 | 01/21/2016 |
| n-Hexane | 20.0 | | **46.2** | 50.00 | 0 | 92.3 | 68.4 | 126 | 01/21/2016 |
| Nitrobenzene | 50.0 | | **360** | 500.0 | 0 | 71.9 | 37.9 | 181 | 01/21/2016 |
| n-Propylbenzene | 5.0 | | **45.5** | 50.00 | 0 | 90.9 | 74.6 | 118 | 01/21/2016 |
| o-Xylene | 5.0 | | **47.2** | 50.00 | 0 | 94.3 | 80.1 | 111 | 01/21/2016 |
| Pentachloroethane | 20.0 | | **47.5** | 50.00 | 0 | 95.0 | 78.8 | 117 | 01/21/2016 |
| p-Isopropyltoluene | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 77.6 | 118 | 01/21/2016 |
| Propionitrile | 50.0 | | **478** | 500.0 | 0 | 95.6 | 72.9 | 137 | 01/21/2016 |
| sec-Butylbenzene | 5.0 | | **46.6** | 50.00 | 0 | 93.2 | 74.5 | 119 | 01/21/2016 |
| Styrene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 83.4 | 113 | 01/21/2016 |
| tert-Amyl methyl ether | 2.0 | | **50.8** | 50.00 | 0 | 101.7 | 78.7 | 117 | 01/21/2016 |
| tert-Butyl alcohol | 25.0 | | **214** | 250.0 | 0 | 85.5 | 58.1 | 139 | 01/21/2016 |
| tert-Butylbenzene | 5.0 | | **44.7** | 50.00 | 0 | 89.4 | 75.9 | 114 | 01/21/2016 |
| Tetrachloroethene | 5.0 | | **46.3** | 50.00 | 0 | 92.7 | 72.5 | 125 | 01/21/2016 |
| Tetrahydrofuran | 20.0 | | **46.7** | 50.00 | 0 | 93.4 | 69.6 | 125 | 01/21/2016 |
| Toluene | 5.0 | | **45.2** | 50.00 | 0 | 90.3 | 77.5 | 113 | 01/21/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **46.0** | 50.00 | 0 | 92.0 | 79 | 114 | 01/21/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 78 | 115 | 01/21/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115777 **SampType:** LCS Units µg/L

SampID: LCS-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **40.6** | 50.00 | 0 | 81.2 | 63.3 | 128 | 01/21/2016 |
| Trichloroethene | 5.0 | | **47.2** | 50.00 | 0 | 94.4 | 84.4 | 114 | 01/21/2016 |
| Trichlorofluoromethane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 75.2 | 132 | 01/21/2016 |
| Vinyl acetate | 10.0 | | **49.7** | 50.00 | 0 | 99.5 | 64.5 | 127 | 01/21/2016 |
| Vinyl chloride | 2.0 | | **41.4** | 50.00 | 0 | 82.9 | 58 | 134 | 01/21/2016 |
| Xylenes, Total | 5.0 | | **142** | 150.0 | 0 | 94.3 | 80.1 | 111 | 01/21/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **92.7** | 100.0 | 0 | 92.7 | 78.2 | 116 | 01/21/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **103** | 100.0 | 0 | 102.7 | 78 | 119 | 01/21/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **78.0** | 100.0 | 0 | 78.0 | 60.7 | 137 | 01/21/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.9** | 50.00 | | 95.8 | 74.7 | 129 | 01/21/2016 |
| Surr: 4-Bromofluorobenzene | | | **48.8** | 50.00 | | 97.5 | 86 | 119 | 01/21/2016 |
| Surr: Toluene-d8 | | | **47.0** | 50.00 | | 93.9 | 84.1 | 114 | 01/21/2016 |

**Batch** 115777 **SampType:** LCSGD Units µg/L RPD Limit **20**

SampID: LCSGD-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1920** | 2000 | 0 | 96.0 | 1958 | 1.99 | 01/21/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.7** | 50.00 | | 95.4 | | | 01/21/2016 |
| Surr: 4-Bromofluorobenzene | | | **48.4** | 50.00 | | 96.8 | | | 01/21/2016 |
| Surr: Toluene-d8 | | | **47.1** | 50.00 | | 94.1 | | | 01/21/2016 |

**Batch** 115777 **SampType:** LCSG Units µg/L

SampID: LCSG-N160120-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1960** | 2000 | 0 | 97.9 | 70 | 130 | 01/21/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **46.6** | 50.00 | | 93.2 | 74.7 | 129 | 01/21/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.7** | 50.00 | | 99.4 | 86 | 119 | 01/21/2016 |
| Surr: Toluene-d8 | | | **46.5** | 50.00 | | 93.0 | 84.3 | 114 | 01/21/2016 |

**Batch** 115777 **SampType:** MS Units µg/L

SampID: 16011015-010BMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5.0 | | **45.2** | 50.00 | 0 | 90.5 | 35.7 | 136 | 01/21/2016 |
| Benzene | 2.0 | | **53.3** | 50.00 | 0 | 106.5 | 62.5 | 121 | 01/21/2016 |
| Chlorobenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 78.6 | 114 | 01/21/2016 |
| Ethylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 74.4 | 130 | 01/21/2016 |
| m,p-Xylenes | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 70.5 | 126 | 01/21/2016 |
| o-Xylene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 71.2 | 124 | 01/21/2016 |
| Toluene | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 69.5 | 118 | 01/21/2016 |
| Trichloroethene | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 69.4 | 117 | 01/21/2016 |
| Xylenes, Total | 5.0 | | **99.4** | 100.0 | 0 | 99.4 | 71.1 | 125 | 01/21/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.4** | 50.00 | | 96.9 | 74.7 | 129 | 01/21/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.6** | 50.00 | | 101.2 | 86 | 119 | 01/21/2016 |
| Surr: Toluene-d8 | | | **47.3** | 50.00 | | 94.5 | 84.3 | 114 | 01/21/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115777** **SampType:** **MSD** Units **µg/L** RPD Limit **40**

SampID: 16011015-010BMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5.0 | | **45.7** | 50.00 | 0 | 91.5 | 45.25 | 1.08 | 01/21/2016 |
| Benzene | 2.0 | | **53.3** | 50.00 | 0 | 106.7 | 53.26 | 0.13 | 01/21/2016 |
| Chlorobenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 50.48 | 0.22 | 01/21/2016 |
| Ethylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 49.99 | 0.12 | 01/21/2016 |
| m,p-Xylenes | 5.0 | | **50.5** | 50.00 | 0 | 100.9 | 49.70 | 1.52 | 01/21/2016 |
| o-Xylene | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 49.71 | 1.12 | 01/21/2016 |
| Toluene | 5.0 | | **48.0** | 50.00 | 0 | 95.9 | 48.35 | 0.83 | 01/21/2016 |
| Trichloroethene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 52.03 | 0.83 | 01/21/2016 |
| Xylenes, Total | 5.0 | | **101** | 100.0 | 0 | 100.7 | 99.41 | 1.32 | 01/21/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.0** | 50.00 | | 98.1 | | | 01/21/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.4** | 50.00 | | 100.7 | | | 01/21/2016 |
| Surr: Toluene-d8 | | | **46.9** | 50.00 | | 93.8 | | | 01/21/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115850** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160125-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **ND** | | | | | | 01/25/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/25/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 2-Butanone | 25.0 | | **ND** | | | | | | 01/25/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **ND** | | | | | | 01/25/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 2-Hexanone | 25.0 | | **ND** | | | | | | 01/25/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/25/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **ND** | | | | | | 01/25/2016 |
| Acetone | 25.0 | | **ND** | | | | | | 01/25/2016 |
| Acetonitrile | 50.0 | | **ND** | | | | | | 01/25/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/25/2016 |
| Acrylonitrile | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Benzene | 2.0 | | **ND** | | | | | | 01/25/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/25/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/25/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115850** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160125-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Chloromethane | 10.0 | | **ND** | | | | | | 01/25/2016 |
| Chloroprene | 20.0 | | **ND** | | | | | | 01/25/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Cyclohexanone | 50.0 | | **ND** | | | | | | 01/25/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/25/2016 |
| Diisopropyl ether | 2.0 | | **ND** | | | | | | 01/25/2016 |
| Ethyl acetate | 10.0 | | **ND** | | | | | | 01/25/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **ND** | | | | | | 01/25/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Hexachloroethane | 10.0 | | **ND** | | | | | | 01/25/2016 |
| Iodomethane | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Methacrylonitrile | 10.0 | | **ND** | | | | | | 01/25/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/25/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/25/2016 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/25/2016 |
| n-Butyl acetate | 25.0 | | **ND** | | | | | | 01/25/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/25/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/25/2016 |
| Nitrobenzene | 50.0 | | **ND** | | | | | | 01/25/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Pentachloroethane | 20.0 | | **ND** | | | | | | 01/25/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/25/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| tert-Amyl methyl ether | 2.0 | | **ND** | | | | | | 01/25/2016 |
| tert-Butyl alcohol | 25.0 | | **ND** | | | | | | 01/25/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Tetrahydrofuran | 20.0 | | **ND** | | | | | | 01/25/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/25/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115850** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160125-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **ND** | | | | | | 01/25/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/25/2016 |
| Vinyl acetate | 10.0 | | **ND** | | | | | | 01/25/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/25/2016 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 01/25/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 01/25/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/25/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.0** | 50.00 | | 95.9 | 74.7 | 129 | 01/25/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.9** | 50.00 | | 101.8 | 86 | 119 | 01/25/2016 |
| Surr: Toluene-d8 | | | **48.0** | 50.00 | | 95.9 | 84.3 | 114 | 01/25/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115850** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160125-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 53.24 | 1.63 | 01/25/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **54.1** | 50.00 | 0 | 108.3 | 55.02 | 1.61 | 01/25/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 49.14 | 1.93 | 01/25/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **52.8** | 50.00 | 0 | 105.6 | 52.73 | 0.13 | 01/25/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 50.29 | 1.97 | 01/25/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **113** | 125.0 | 0 | 90.4 | 115.4 | 2.10 | 01/25/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 53.36 | 0.75 | 01/25/2016 |
| 1,1-Dichloroethene | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 52.20 | 1.54 | 01/25/2016 |
| 1,1-Dichloropropene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 54.72 | 1.84 | 01/25/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 51.56 | 2.45 | 01/25/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **46.1** | 50.00 | 0 | 92.2 | 47.69 | 3.41 | 01/25/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 51.54 | 2.93 | 01/25/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **49.6** | 50.00 | 0 | 99.1 | 51.40 | 3.65 | 01/25/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 52.96 | 2.54 | 01/25/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 49.97 | 5.89 | 01/25/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 51.24 | 3.19 | 01/25/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 51.56 | 2.75 | 01/25/2016 |
| 1,2-Dichloroethane | 5.0 | | **49.5** | 50.00 | 0 | 98.9 | 50.29 | 1.64 | 01/25/2016 |
| 1,2-Dichloropropane | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 53.73 | 1.48 | 01/25/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.6** | 50.00 | 0 | 105.1 | 54.03 | 2.74 | 01/25/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 50.96 | 0.39 | 01/25/2016 |
| 1,3-Dichloropropane | 5.0 | | **47.6** | 50.00 | 0 | 95.2 | 48.29 | 1.48 | 01/25/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 50.12 | 2.26 | 01/25/2016 |
| 1-Chlorobutane | 5.0 | | **52.8** | 50.00 | 0 | 105.7 | 53.50 | 1.26 | 01/25/2016 |
| 2,2-Dichloropropane | 5.0 | | **53.7** | 50.00 | 0 | 107.3 | 55.37 | 3.14 | 01/25/2016 |
| 2-Butanone | 25.0 | | **141** | 125.0 | 0 | 112.8 | 152.1 | 7.62 | 01/25/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **53.9** | 50.00 | 0 | 107.9 | 55.25 | 2.42 | 01/25/2016 |
| 2-Chlorotoluene | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 50.90 | 1.25 | 01/25/2016 |
| 2-Hexanone | 25.0 | | **117** | 125.0 | 0 | 93.9 | 126.3 | 7.32 | 01/25/2016 |
| 2-Nitropropane | 50.0 | | **552** | 500.0 | 0 | 110.5 | 572.6 | 3.61 | 01/25/2016 |
| 4-Chlorotoluene | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 50.88 | 1.01 | 01/25/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **114** | 125.0 | 0 | 91.5 | 119.6 | 4.44 | 01/25/2016 |
| Acetone | 25.0 | | **162** | 125.0 | 0 | 129.7 | 179.9 | 10.36 | 01/25/2016 |
| Acetonitrile | 50.0 | | **592** | 500.0 | 0 | 118.4 | 592.5 | 0.08 | 01/25/2016 |
| Acrolein | 100 | | **333** | 500.0 | 0 | 66.6 | 348.9 | 4.71 | 01/25/2016 |
| Acrylonitrile | 5.0 | | **52.5** | 50.00 | 0 | 105.1 | 54.63 | 3.90 | 01/25/2016 |
| Allyl chloride | 5.0 | | **53.5** | 50.00 | 0 | 107.1 | 56.29 | 5.01 | 01/25/2016 |
| Benzene | 2.0 | | **54.9** | 50.00 | 0 | 109.9 | 55.21 | 0.49 | 01/25/2016 |
| Bromobenzene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 49.24 | 1.47 | 01/25/2016 |
| Bromochloromethane | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 52.50 | 0.80 | 01/25/2016 |
| Bromodichloromethane | 5.0 | | **55.4** | 50.00 | 0 | 110.8 | 55.49 | 0.16 | 01/25/2016 |
| Bromoform | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 53.77 | 3.06 | 01/25/2016 |
| Bromomethane | 10.0 | | **48.6** | 50.00 | 0 | 97.1 | 51.41 | 5.70 | 01/25/2016 |
| Carbon disulfide | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 53.18 | 1.84 | 01/25/2016 |
| Carbon tetrachloride | 5.0 | | **55.7** | 50.00 | 0 | 111.3 | 56.53 | 1.53 | 01/25/2016 |
| Chlorobenzene | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 50.37 | 2.13 | 01/25/2016 |
| Chloroethane | 10.0 | | **44.3** | 50.00 | 0 | 88.5 | 46.16 | 4.20 | 01/25/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16011015

**Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115850** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160125-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 52.91 | 2.06 | 01/25/2016 |
| Chloromethane | 10.0 | | **43.2** | 50.00 | 0 | 86.3 | 43.46 | 0.72 | 01/25/2016 |
| Chloroprene | 20.0 | | **50.2** | 50.00 | 0 | 100.3 | 51.19 | 2.01 | 01/25/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 53.60 | 3.22 | 01/25/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **58.7** | 50.00 | 0 | 117.4 | 58.82 | 0.17 | 01/25/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **42.3** | 50.00 | 0 | 84.7 | 45.07 | 6.25 | 01/25/2016 |
| Cyclohexanone | 50.0 | | **506** | 500.0 | 0 | 101.2 | 547.7 | 7.91 | 01/25/2016 |
| Dibromochloromethane | 5.0 | | **52.8** | 50.00 | 0 | 105.7 | 53.92 | 2.02 | 01/25/2016 |
| Dibromomethane | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 52.34 | 0.48 | 01/25/2016 |
| Dichlorodifluoromethane | 10.0 | | **47.7** | 50.00 | 0 | 95.4 | 48.28 | 1.23 | 01/25/2016 |
| Diisopropyl ether | 2.0 | | **56.5** | 50.00 | 0 | 112.9 | 57.35 | 1.56 | 01/25/2016 |
| Ethyl acetate | 10.0 | | **50.9** | 50.00 | 0 | 101.9 | 52.60 | 3.21 | 01/25/2016 |
| Ethyl ether | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 50.69 | 0.77 | 01/25/2016 |
| Ethyl methacrylate | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 50.52 | 2.28 | 01/25/2016 |
| Ethylbenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.3 | 50.32 | 1.30 | 01/25/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **55.9** | 50.00 | 0 | 111.7 | 55.74 | 0.23 | 01/25/2016 |
| Hexachlorobutadiene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 55.07 | 2.56 | 01/25/2016 |
| Hexachloroethane | 10.0 | | **51.4** | 50.00 | 0 | 102.9 | 51.94 | 0.95 | 01/25/2016 |
| Iodomethane | 5.0 | | **61.6** | 50.00 | 0 | 123.1 | 63.05 | 2.38 | 01/25/2016 |
| Isopropylbenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 53.02 | 2.87 | 01/25/2016 |
| m,p-Xylenes | 5.0 | | **101** | 100.0 | 0 | 100.5 | 101.5 | 1.01 | 01/25/2016 |
| Methacrylonitrile | 10.0 | | **52.7** | 50.00 | 0 | 105.4 | 53.65 | 1.79 | 01/25/2016 |
| Methyl Methacrylate | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 55.49 | 5.29 | 01/25/2016 |
| Methyl tert-butyl ether | 2.0 | | **54.4** | 50.00 | 0 | 108.7 | 55.07 | 1.30 | 01/25/2016 |
| Methylacrylate | 10.0 | | **57.5** | 50.00 | 0 | 115.0 | 57.87 | 0.66 | 01/25/2016 |
| Methylene chloride | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 51.96 | 1.53 | 01/25/2016 |
| Naphthalene | 10.0 | | **53.3** | 50.00 | 0 | 106.6 | 54.61 | 2.45 | 01/25/2016 |
| n-Butyl acetate | 25.0 | | **46.5** | 50.00 | 0 | 93.0 | 48.60 | 4.39 | 01/25/2016 |
| n-Butylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 51.99 | 2.24 | 01/25/2016 |
| n-Heptane | 20.0 | | **55.0** | 50.00 | 0 | 110.0 | 55.13 | 0.20 | 01/25/2016 |
| n-Hexane | 20.0 | | **56.0** | 50.00 | 0 | 111.9 | 56.32 | 0.64 | 01/25/2016 |
| Nitrobenzene | 50.0 | | **475** | 500.0 | 0 | 95.0 | 519.3 | 8.88 | 01/25/2016 |
| n-Propylbenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 51.02 | 2.18 | 01/25/2016 |
| o-Xylene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 51.63 | 3.05 | 01/25/2016 |
| Pentachloroethane | 20.0 | | **53.2** | 50.00 | 0 | 106.5 | 54.53 | 2.38 | 01/25/2016 |
| p-Isopropyltoluene | 5.0 | | **53.0** | 50.00 | 0 | 106.0 | 54.22 | 2.28 | 01/25/2016 |
| Propionitrile | 50.0 | | **567** | 500.0 | 0 | 113.3 | 584.1 | 3.01 | 01/25/2016 |
| sec-Butylbenzene | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 53.31 | 2.49 | 01/25/2016 |
| Styrene | 5.0 | | **52.8** | 50.00 | 0 | 105.7 | 54.38 | 2.89 | 01/25/2016 |
| tert-Amyl methyl ether | 2.0 | | **55.9** | 50.00 | 0 | 111.7 | 56.35 | 0.86 | 01/25/2016 |
| tert-Butyl alcohol | 25.0 | | **293** | 250.0 | 0 | 117.4 | 311.4 | 5.96 | 01/25/2016 |
| tert-Butylbenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 49.46 | 1.92 | 01/25/2016 |
| Tetrachloroethene | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 50.49 | 3.47 | 01/25/2016 |
| Tetrahydrofuran | 20.0 | | **53.8** | 50.00 | 0 | 107.6 | 55.47 | 3.09 | 01/25/2016 |
| Toluene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 49.66 | 2.36 | 01/25/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 53.74 | 1.46 | 01/25/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 53.07 | 2.48 | 01/25/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16011015
**Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115850** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160125-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **46.9** | 50.00 | 0 | 93.7 | 49.75 | 5.96 | 01/25/2016 |
| Trichloroethene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 54.36 | 2.01 | 01/25/2016 |
| Trichlorofluoromethane | 5.0 | | **55.7** | 50.00 | 0 | 111.5 | 55.97 | 0.43 | 01/25/2016 |
| Vinyl acetate | 10.0 | | **57.6** | 50.00 | 0 | 115.3 | 57.07 | 0.98 | 01/25/2016 |
| Vinyl chloride | 2.0 | | **48.1** | 50.00 | 0 | 96.2 | 49.93 | 3.75 | 01/25/2016 |
| Xylenes, Total | 5.0 | | **151** | 150.0 | 0 | 100.4 | 153.2 | 1.69 | 01/25/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **105** | 100.0 | 0 | 104.9 | 107.3 | 2.34 | 01/25/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **110** | 100.0 | 0 | 110.5 | 111.9 | 1.26 | 01/25/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **89.2** | 100.0 | 0 | 89.2 | 94.82 | 6.10 | 01/25/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.6** | 50.00 | | 95.2 | | | 01/25/2016 |
| Surr: 4-Bromofluorobenzene | | | **51.3** | 50.00 | | 102.6 | | | 01/25/2016 |
| Surr: Toluene-d8 | | | **45.8** | 50.00 | | 91.5 | | | 01/25/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115850** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N160125-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 81.9 | 115 | 01/25/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **55.0** | 50.00 | 0 | 110.0 | 79.4 | 124 | 01/25/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **49.1** | 50.00 | 0 | 98.3 | 74.7 | 116 | 01/25/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **52.7** | 50.00 | 0 | 105.5 | 72.9 | 121 | 01/25/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 80.8 | 111 | 01/25/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **115** | 125.0 | 0 | 92.3 | 66.3 | 130 | 01/25/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.4** | 50.00 | 0 | 106.7 | 79.4 | 114 | 01/25/2016 |
| 1,1-Dichloroethene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 74.1 | 117 | 01/25/2016 |
| 1,1-Dichloropropene | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 81.7 | 116 | 01/25/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 79.7 | 118 | 01/25/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **47.7** | 50.00 | 0 | 95.4 | 77.3 | 112 | 01/25/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.1 | 79.9 | 119 | 01/25/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 79.3 | 118 | 01/25/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 78.7 | 115 | 01/25/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 76 | 122 | 01/25/2016 |
| 1,2-Dibromoethane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 80.8 | 114 | 01/25/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 78.3 | 112 | 01/25/2016 |
| 1,2-Dichloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 70.6 | 118 | 01/25/2016 |
| 1,2-Dichloropropane | 5.0 | | **53.7** | 50.00 | 0 | 107.5 | 79.6 | 113 | 01/25/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 77.5 | 115 | 01/25/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 78.6 | 117 | 01/25/2016 |
| 1,3-Dichloropropane | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 78.8 | 112 | 01/25/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 77.8 | 114 | 01/25/2016 |
| 1-Chlorobutane | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 78.6 | 115 | 01/25/2016 |
| 2,2-Dichloropropane | 5.0 | | **55.4** | 50.00 | 0 | 110.7 | 74.9 | 130 | 01/25/2016 |
| 2-Butanone | 25.0 | | **152** | 125.0 | 0 | 121.7 | 70.7 | 136 | 01/25/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **55.2** | 50.00 | 0 | 110.5 | 52.5 | 145 | 01/25/2016 |
| 2-Chlorotoluene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 77.4 | 114 | 01/25/2016 |
| 2-Hexanone | 25.0 | | **126** | 125.0 | 0 | 101.0 | 73.3 | 125 | 01/25/2016 |
| 2-Nitropropane | 50.0 | | **573** | 500.0 | 0 | 114.5 | 67.3 | 139 | 01/25/2016 |
| 4-Chlorotoluene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 78.3 | 115 | 01/25/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **120** | 125.0 | 0 | 95.7 | 76.3 | 122 | 01/25/2016 |
| Acetone | 25.0 | | **180** | 125.0 | 0 | 143.9 | 56.4 | 147 | 01/25/2016 |
| Acetonitrile | 50.0 | | **593** | 500.0 | 0 | 118.5 | 59.3 | 129 | 01/25/2016 |
| Acrolein | 100 | | **349** | 500.0 | 0 | 69.8 | 1 | 201 | 01/25/2016 |
| Acrylonitrile | 5.0 | | **54.6** | 50.00 | 0 | 109.3 | 74.1 | 128 | 01/25/2016 |
| Allyl chloride | 5.0 | | **56.3** | 50.00 | 0 | 112.6 | 71.5 | 123 | 01/25/2016 |
| Benzene | 2.0 | | **55.2** | 50.00 | 0 | 110.4 | 80 | 114 | 01/25/2016 |
| Bromobenzene | 5.0 | | **49.2** | 50.00 | 0 | 98.5 | 73.2 | 118 | 01/25/2016 |
| Bromochloromethane | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 73.3 | 121 | 01/25/2016 |
| Bromodichloromethane | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 81.6 | 121 | 01/25/2016 |
| Bromoform | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 83.1 | 127 | 01/25/2016 |
| Bromomethane | 10.0 | | **51.4** | 50.00 | 0 | 102.8 | 44.4 | 154 | 01/25/2016 |
| Carbon disulfide | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 73.2 | 118 | 01/25/2016 |
| Carbon tetrachloride | 5.0 | | **56.5** | 50.00 | 0 | 113.1 | 79.4 | 130 | 01/25/2016 |
| Chlorobenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 81.4 | 110 | 01/25/2016 |
| Chloroethane | 10.0 | | **46.2** | 50.00 | 0 | 92.3 | 52.1 | 137 | 01/25/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115850** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N160125-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 82.7 | 116 | 01/25/2016 |
| Chloromethane | 10.0 | | **43.5** | 50.00 | 0 | 86.9 | 48.2 | 144 | 01/25/2016 |
| Chloroprene | 20.0 | | **51.2** | 50.00 | 0 | 102.4 | 80.6 | 126 | 01/25/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 78.2 | 116 | 01/25/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **58.8** | 50.00 | 0 | 117.6 | 83 | 119 | 01/25/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **45.1** | 50.00 | 0 | 90.1 | 60.7 | 137 | 01/25/2016 |
| Cyclohexanone | 50.0 | | **548** | 500.0 | 0 | 109.5 | 54.2 | 145 | 01/25/2016 |
| Dibromochloromethane | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 81.2 | 121 | 01/25/2016 |
| Dibromomethane | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 78.3 | 118 | 01/25/2016 |
| Dichlorodifluoromethane | 10.0 | | **48.3** | 50.00 | 0 | 96.6 | 20.6 | 154 | 01/25/2016 |
| Diisopropyl ether | 2.0 | | **57.4** | 50.00 | 0 | 114.7 | 73.1 | 116 | 01/25/2016 |
| Ethyl acetate | 10.0 | | **52.6** | 50.00 | 0 | 105.2 | 73.1 | 116 | 01/25/2016 |
| Ethyl ether | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 75.2 | 109 | 01/25/2016 |
| Ethyl methacrylate | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 80.1 | 113 | 01/25/2016 |
| Ethylbenzene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 77.2 | 113 | 01/25/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **55.7** | 50.00 | 0 | 111.5 | 75 | 118 | 01/25/2016 |
| Hexachlorobutadiene | 5.0 | | **55.1** | 50.00 | 0 | 110.1 | 77.3 | 123 | 01/25/2016 |
| Hexachloroethane | 10.0 | | **51.9** | 50.00 | 0 | 103.9 | 74.6 | 117 | 01/25/2016 |
| Iodomethane | 5.0 | | **63.0** | 50.00 | 0 | 126.1 | 61.3 | 140 | 01/25/2016 |
| Isopropylbenzene | 5.0 | | **53.0** | 50.00 | 0 | 106.0 | 81.3 | 114 | 01/25/2016 |
| m,p-Xylenes | 5.0 | | **102** | 100.0 | 0 | 101.5 | 79.6 | 113 | 01/25/2016 |
| Methacrylonitrile | 10.0 | | **53.6** | 50.00 | 0 | 107.3 | 77.2 | 125 | 01/25/2016 |
| Methyl Methacrylate | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 74.2 | 121 | 01/25/2016 |
| Methyl tert-butyl ether | 2.0 | | **55.1** | 50.00 | 0 | 110.1 | 76.8 | 117 | 01/25/2016 |
| Methylacrylate | 10.0 | | **57.9** | 50.00 | 0 | 115.7 | 78 | 124 | 01/25/2016 |
| Methylene chloride | 5.0 | | **52.0** | 50.00 | 0 | 103.9 | 74.1 | 114 | 01/25/2016 |
| Naphthalene | 10.0 | | **54.6** | 50.00 | 0 | 109.2 | 77.9 | 122 | 01/25/2016 |
| n-Butyl acetate | 25.0 | | **48.6** | 50.00 | 0 | 97.2 | 74 | 120 | 01/25/2016 |
| n-Butylbenzene | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 71.1 | 120 | 01/25/2016 |
| n-Heptane | 20.0 | | **55.1** | 50.00 | 0 | 110.3 | 67.4 | 129 | 01/25/2016 |
| n-Hexane | 20.0 | | **56.3** | 50.00 | 0 | 112.6 | 68.4 | 126 | 01/25/2016 |
| Nitrobenzene | 50.0 | | **519** | 500.0 | 0 | 103.9 | 37.9 | 181 | 01/25/2016 |
| n-Propylbenzene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 74.6 | 118 | 01/25/2016 |
| o-Xylene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 80.1 | 111 | 01/25/2016 |
| Pentachloroethane | 20.0 | | **54.5** | 50.00 | 0 | 109.1 | 78.8 | 117 | 01/25/2016 |
| p-Isopropyltoluene | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 77.6 | 118 | 01/25/2016 |
| Propionitrile | 50.0 | | **584** | 500.0 | 0 | 116.8 | 72.9 | 137 | 01/25/2016 |
| sec-Butylbenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 74.5 | 119 | 01/25/2016 |
| Styrene | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 83.4 | 113 | 01/25/2016 |
| tert-Amyl methyl ether | 2.0 | | **56.4** | 50.00 | 0 | 112.7 | 78.7 | 117 | 01/25/2016 |
| tert-Butyl alcohol | 25.0 | | **311** | 250.0 | 0 | 124.6 | 58.1 | 139 | 01/25/2016 |
| tert-Butylbenzene | 5.0 | | **49.5** | 50.00 | 0 | 98.9 | 75.9 | 114 | 01/25/2016 |
| Tetrachloroethene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 72.5 | 125 | 01/25/2016 |
| Tetrahydrofuran | 20.0 | | **55.5** | 50.00 | 0 | 110.9 | 69.6 | 125 | 01/25/2016 |
| Toluene | 5.0 | | **49.7** | 50.00 | 0 | 99.3 | 77.5 | 113 | 01/25/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **53.7** | 50.00 | 0 | 107.5 | 79 | 114 | 01/25/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **53.1** | 50.00 | 0 | 106.1 | 78 | 115 | 01/25/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16011015

**Client Project:** NGA 2015-0461.21 **Report Date:** 25-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115850 **SampType:** LCS Units **µg/L**

SampID: LCS-N160125-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **49.8** | 50.00 | 0 | 99.5 | 63.3 | 128 | 01/25/2016 |
| Trichloroethene | 5.0 | | **54.4** | 50.00 | 0 | 108.7 | 84.4 | 114 | 01/25/2016 |
| Trichlorofluoromethane | 5.0 | | **56.0** | 50.00 | 0 | 111.9 | 75.2 | 132 | 01/25/2016 |
| Vinyl acetate | 10.0 | | **57.1** | 50.00 | 0 | 114.1 | 64.5 | 127 | 01/25/2016 |
| Vinyl chloride | 2.0 | | **49.9** | 50.00 | 0 | 99.9 | 58 | 134 | 01/25/2016 |
| Xylenes, Total | 5.0 | | **153** | 150.0 | 0 | 102.1 | 80.1 | 111 | 01/25/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **107** | 100.0 | 0 | 107.3 | 78.2 | 116 | 01/25/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **112** | 100.0 | 0 | 111.9 | 78 | 119 | 01/25/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **94.8** | 100.0 | 0 | 94.8 | 60.7 | 137 | 01/25/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **46.9** | 50.00 | | 93.9 | 74.7 | 129 | 01/25/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.1** | 50.00 | | 100.2 | 86 | 119 | 01/25/2016 |
| Surr: Toluene-d8 | | | **46.5** | 50.00 | | 93.1 | 84.1 | 114 | 01/25/2016 |

**Batch** 115850 **SampType:** LCSGD Units **µg/L** RPD Limit **20**

SampID: LCSGD-N160125-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2030** | 2000 | 0 | 101.7 | 2057 | 1.11 | 01/25/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **46.6** | 50.00 | | 93.1 | | | 01/25/2016 |
| Surr: 4-Bromofluorobenzene | | | **51.4** | 50.00 | | 102.8 | | | 01/25/2016 |
| Surr: Toluene-d8 | | | **47.1** | 50.00 | | 94.2 | | | 01/25/2016 |

**Batch** 115850 **SampType:** LCSG Units **µg/L**

SampID: LCSG-N160125-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2060** | 2000 | 0 | 102.9 | 70 | 130 | 01/25/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **46.0** | 50.00 | | 92.1 | 74.7 | 129 | 01/25/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.8** | 50.00 | | 101.6 | 86 | 119 | 01/25/2016 |
| Surr: Toluene-d8 | | | **46.6** | 50.00 | | 93.3 | 84.3 | 114 | 01/25/2016 |

# Receiving Check List

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16011015
**Report Date:** 25-Jan-16

**Carrier:** Nick Harvey

**Received By:** SAH

**Completed by:** Shelly A Hennessy
**On:** 19-Jan-16
Shelly A. Hennessy

**Reviewed by:** Elizabeth A. Hurley
**On:** 19-Jan-16
Elizabeth A. Hurley

**Pages to follow:** Chain of custody 2 Extra pages included 0

| | | | | |
|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ | Temp °C 2.82 |
| Type of thermal preservation? | None ☐ | Ice ☑ | Blue Ice ☐ | Dry Ice ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | | |
| Chain of custody agrees with sample labels? | Yes ☐ | No ☑ | | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | | |
| Sample containers intact? | Yes ☑ | No ☐ | | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | | |
| All samples received within holding time? | Yes ☑ | No ☐ | | |
| Reported field parameters measured: | Field ☐ | Lab ☐ | NA ☑ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | | |

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

| | | | |
|---|---|---|---|
| Water – at least one vial per sample has zero headspace? | Yes ☑ | No ☐ | No VOA vials ☐ |
| Water - TOX containers have zero headspace? | Yes ☐ | No ☐ | No TOX containers ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | NA ☐ |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes ☐ | No ☐ | NA ☑ |

**Any No responses must be detailed below or on the COC.**

Trip Blank collection date and time will be reported as the received date and time (end of trip).

SCI-47 is labeled as collected at 2:15PM. SAH 1/19/16

# CHAIN OF CUSTODY

pg. 1 of 2 Work order # 16011015

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☑ ICE ☐ BLUE ICE ☐ NO ICE 28.2 °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**
zero head space amb 1-19-16

**Client Comments:**
Meet MRBCA DTLs
Teklab, Inc. Courier Pick Up

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | DRO/ORO/PAH 8270 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16011015-001 | Trip Blank 2 | 12-15-2015 12:45 | | | | | | | | 2 | X | | | | | | | | X |
| 002 | Equipment Blank 2 | 1-18-2016 10:30 | | | | | | | | 2 | X | | | | | | | | X |
| 003 | SCI-5 | 10:55 | 1 | | | | | | | 2 | | | | | | X | X | | X |
| 004 | SCI-5D | 10:55 | 1 | | | | | | | 2 | | | | | | X | X | | X |
| 005 | SCI-10 | 11:15 | 1 | | | | | | | 2 | | | | | | X | X | | X |
| 006 | SCI-10D | 11:15 | 1 | | | | | | | 2 | | | | | | X | X | | X |
| 007 | SCI-~~28~~ 27 TSC 1-18-16 | 11:30 | | | | | | | | 2 | | | | | | X | | | X |
| 008 | SCI-28 | 11:45 | | | | | | | | 2 | | | | | | X | | | X |
| 009 | SCI-31 | 12:00 | 1 | | | | | | | 2 | | | | | | X | X | | X |
| 010 | SCI-33 | 12:30 | 1 | | | | | | | 2 | | | | | | X | X | | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 1-18-2016 ~~5:00~~ 17:00 | | 1/19/16 1445 |
| | 1/19/16 ~~830~~ 1-18-2016 | Shelby Hennessy | 1/19/16 1530 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28652

# CHAIN OF CUSTODY

pg. 2 of 2 Work order # 16011015

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
**Preserved in:** ☐ LAB ☐ FIELD

**FOR LAB USE ONLY**

**Lab Notes**

* containers have 14/5 SAH 1/19/16

**Client Comments:**

Meet MRBCA DTLs

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16011015-011 | SCI-37 | 1-18-2016 1310 | 1 | | | | | | | 2 | | | | | | X | X | | X |
| 012 | SCI-41 | 13:30 | 1 | | | | | | | 2 | | | | | | X | X | | X |
| 013 | SCI-41D | 13:30 | 1 | | | | | | | 2 | | | | | | X | X | | X |
| 014 | SCI-45 | 13:45 | 1 | | | | | | | 2 | | | | | | X | X | | X |
| 015 | SCI-47 | 14:10* | 1 | | | | | | | 2 | | | | | | X | X | | X |
| 016 | SCI-50 | 14:30 | 1 | | | | | | | 2 | | | | | | X | X | | X |
| 017 | SCI-53 | 14:45 | 1 | | | | | | | 2 | | | | | | X | X | | X |
| 018 | SCI-55 | 15:00 | 1 | | | | | | | 2 | | | | | | X | X | | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 1-18-2016 17:00 | | 1/19/16 1445 |
| | 1/19/16 1500 | Shelly Hennessy | 1/19/16 1530 |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28652

# APPENDIX E

**Table 3 - Analytical Test Results Summary By City Block - Soils**
**National Geospatial Intelligence Agency - Proposed**
**St. Louis, Missouri**
**SCI No. 2015-0461.21**

| City Block | Boring Numbers | DTL/Background Exceedences | Residential RBTL Exceedences | Non - Residential RBTL Exceedences | Construction Worker RBTL Exceedences |
|---|---|---|---|---|---|
| Block 1079 | SCI-1 through SCI-3 | arsenic, lead, benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene | arsenic, lead, benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene | lead, benzo(a)pyrene | lead |
| Block 1080 | SCI-10 through SCI-12 | none | none | none | none |
| Block 1082 | SCI-23 through SCI-25 | lead, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene | lead, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene | benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, lead | lead |
| Block 1083 | SCI-13 through SCI-17, SCI-18 and SCI-19, SCI-20 through SCI-22 | lead, benzo(a)pyrene, benzo(a)antracene, benzo(b)fluoranthene | lead, benzo(a)pyrene, benzo(a)antracene, benzo(b)fluoranthene | lead | lead |
| Block 1084 | SCI-7 through SCI-9 | lead | lead | lead | lead |
| Block 1093 | SCI-4 through SCI-6 | benzo(a)pyrene, TPH-DRO | benzo(a)pyrene | benzo(a)pyrene | none |
| Block 1095 | SCI-26 through SCI-34 | benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene | benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene | lead, benzo(a)pyrene, dibenzo(a,h)anthracene | lead |
| Block 2315 | SCI-75, SCI-76, SCI-77 | lead | none | none | none |
| Block 2316 | SCI-72 through SCI-74 | NA | NA | NA | NA |
| Block 2319 | SCI-71 | lead | none | none | none |
| Block 2324 | SCI-66 - SCI-67 | lead, benzo(a)pyrene | lead, benzo(a)pyrene | lead, benzo(a)pyrene | lead |
| Block 2325 | SCI-68 through SCI-70 | lead, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene | lead, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene | lead, benzo(a)pyrene | lead |
| Block 2326 | SCI-58, SCI-59, SCI-60, SCI-61, SCI-62, SCI-63 through SCI-65 | lead, benzo(a)pyrene | benzo(a)pyrene | none | none |
| Block 2327 | SCI-46 through SCI-50 | lead | none | none | none |
| Block 2328 | SCI-52 through SCI-54 | lead, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene | benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene | benzo(a)pyrene | none |
| Block 2329 | SCI-56, SCI-55, SCI-57 | lead, benzo(a)pyrene | benzo(a)pyrene | none | none |
| Block 2345 | SCI-37 through SCI-45 | | | | |
| Block 2346 | SCI-35 and SCI-36 | lead, benzo(a)pyrene | lead, benzo(a)pyrene | lead, benzo(a)pyrene | lead |
| Block 2347 | B-35 and B-36 | benzo(a)pyrene | benzo(a)pyrene | benzo(a)pyrene | none |

Red lettering indicates inaccessible locations

# APPENDIX F

**Table 4 - Analytical Test Results Summary By City Block - Groundwater**
**National Geospatial Intelligence Agency - Proposed**
**St. Louis, Missouri**
**SCI No. 2015-0461.21**

| City Block | Boring Numbers | DTL/Background Exceedences | Residential RBTL Exceedences | Non - Residential RBTL Exceedences | Construction Worker RBTL Exceedences |
|---|---|---|---|---|---|
| Block 1079 | SCI-1 through SCI-3 | none | none | none | none |
| Block 1080 | SCI-10 through SCI-12 | TPH-ORO | none | none | none |
| Block 1082 | SCI-23 through SCI-25 | none | none | none | none |
| Block 1083 | SCI-13 through SCI-17, SCI-18 and SCI-19, SCI-20 through SCI-22 | none | none | none | none |
| Block 1084 | SCI-7 through SCI-9 | none | none | none | none |
| Block 1093 | SCI-4 through SCI-6 | TPH-DRO | none | none | none |
| Block 1095 | SCI-26 through SCI-34 | none | none | none | none |
| Block 2315 | SCI-75, SCI-76, SCI-77 | none | none | none | none |
| Block 2316 | SCI-72 through SCI-74 | NA | NA | NA | NA |
| Block 2319 | SCI-71 | none | none | none | none |
| Block 2324 | SCI-66 - SCI-67 | bezo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, pyrene | none | none | none |
| Block 2325 | SCI-68 through SCI-70 | none | none | none | none |
| Block 2326 | SCI-58, SCI-59, SCI-60, SCI-61, SCI-62, SCI-63 through SCI-65 | bezo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, pyrene, TPH-DRO, 1,2,4 trimethylbenzene, 1,3,5 trimethylbenzene, naphthalene | none | none | none |
| Block 2327 | SCI-46 through SCI-50 | none | none | none | none |
| Block 2328 | SCI-52 through SCI-54 | none | none | none | none |
| Block 2329 | SCI-56, SCI-55, SCI-57 | none | none | none | none |
| Block 2346 | SCI-37 through SCI-45 | TPH-ORO | none | none | none |
| Block 2347 | SCI-35 and SCI-36 | none | none | none | none |

Red lettering indicates inaccessible location

# APPENDIX G

## Table 5 – Summary of Analytical Test Results

| Sample Number | Material Location | Material Description | Approx. Quantity | Result | Category |
|---|---|---|---|---|---|
| T7-1-13 | T7-13 Feet | Shingle | -- | None Detected | -- |
| T7-2-52 | T7-52 Feet | Roofing Material | -- | None Detected | -- |
| T7-3-104 | T7-104 Feet | Roofing Slate | -- | None Detected | -- |
| T7-4-150 | T7-150 Feet | Brown Tile | -- | None Detected | -- |
| T7-5-177 | T7-177 Feet | Binding Compound | -- | None Detected | -- |
| T7-6-179 | T7-179 Feet | White Sheet Flooring | | None Detected in Flooring or Mastic | -- |
| T7-7-187 | T7-187 Feet | Drywall with Wall Paper | -- | None Detected in Drywall or Wall Paper | -- |
| T7-8-190 | T7-190 Feet | Binding Compound with Plaster | -- | None Detected in Binding Compound or Plaster | -- |
| T7-9-200 | T7-200 Feet | Plaster | -- | None Detected | -- |
| T7-10-237 | T7-237 Feet | Shingle with Tar | -- | None Detected in Shingle or Tar | -- |
| T7-11-250 | T7-250 Feet | White Tile | -- | None Detected in Tile or Mastic | -- |
| T7-12-248 | T7-248 Feet | Plaster | -- | None Detected in Plaster or Texture | -- |
| T7-13-300 | T7-300 Feet | White Tile | -- | None Detected in Tile or Mastic | -- |
| T7-14-380 | T7-380 Feet | White Tile | -- | None Detected in Tile, Mastic or Fibrous Material | -- |
| T7-15-395 | T7-395 Feet | Tile with Paper Backing | -- | None Detected in Tile or Tan Mastic; 3% Chrysotile in Black Mastic | NCI |
| T13-16-10 | T13-10 Feet | Green Tile with Paper Backing | -- | None Detected in Tile, Tan Mastic, Black Mastic or Paper Backing | -- |
| T13-17-10 | T13-10 Feet | Yellow Tile | -- | None Detected in Tile or Mastic | -- |
| T13-18-24 | T13-24 Feet | Binding Material Paper Backing | -- | None Detected in Paper Backing or Soft Material | -- |
| T13-19-25 | T13-25 Feet | Roofing Material | -- | None Detected in Roofing Material, Fibrous Material, or Bituminous Material | -- |
| T13-20-32 | T13-32 Feet | Plaster | -- | None Detected | -- |
| T11-21-16 | T11-16 Feet | Shingles | -- | None Detected | -- |
| T12-22-17 | T12-17 Feet | Drywall | -- | None Detected | -- |
| T14-23-78 | T14-78 Feet | Roofing Material | | 2% Chrysotile in Roofing Material; None Detected in Hard Material | NCI |
| T14-24-116 | T14-116 Feet | Roofing Material | -- | None Detected | -- |

sf – square feet
NCI – Non-Friable Category I Material

## Table 5 – Summary of Analytical Test Results (continued)

| Sample Number | Material Location | Material Description | Approx. Quantity | Result | Category |
|---|---|---|---|---|---|
| T20-25-140 | T20-140 Feet | Roofing Material | -- | None Detected in Roofing Material or Fibrous Material | -- |
| T20-26-169 | T20-169 Feet | Shingle | -- | None Detected | -- |
| T20-27-178 | T20-178 Feet | Brown Tile | -- | None Detected in Tile or Mastic | -- |
| T20-28-180 | T20-180 Feet | Wire Wrap | -- | None Detected | -- |
| T20-29-219 | T20-219 Feet | Plaster | -- | None Detected | -- |
| T20-30-263 | T20-263 Feet | Sheet Flooring | -- | None Detected in Flooring or Mastic | -- |
| T20-31-341 | T20-341 Feet | White Tile | -- | None Detected in Tile, Mastic, or Brittle Material | -- |
| T20-32-352 | T20-352 Feet | Green Tile | -- | None Detected in Tile, Tan Mastic or Black Mastic | -- |
| T25-33-193 | T25-193 Feet | Roofing Material | -- | None Detected in Roofing Material or Fibrous Material | -- |
| T25-34-239 | T25-239 Feet | Wire Wrap | -- | None Detected | -- |
| T25-35-295 | T25-295 Feet | Gold Sheet Flooring | -- | None Detected in Flooring or Granular Material | -- |
| T25-36-300 | T25-300 Feet | Red Tile | --- | None Detected in Tile or Mastic | -- |
| T25-37-330 | T25-330 Feet | White Tile | -- | None Detected in Tile or Mastic | -- |
| T31-38-132 | T31-132 Feet | Yellow Spotted Tile | | 20% Chrysotile | NCI |
| T31-39-133 | T31-133 Feet | Blue Tile | -- | None Detected in Tile or Mastic | -- |
| T31-40-133 | T31-133 Feet | White with Blue Tile | -- | None Detected in Tile or Mastic | -- |
| T31-41-110 | T31-110 Feet | Roofing Material | -- | None Detected in Roofing Material, Fibrous Material, or Soft Material | -- |
| T31-42-51 | T31-51 Feet | Sheet Flooring Snake Design | -- | None Detected in Flooring or Mastic | -- |
| T31-43-51 | T31-51 Feet | Plaster | -- | None Detected | -- |
| T31-44-460 | T31-460 Feet | Roofing Material | -- | None Detected in Roofing Material, Fibrous Material, or Hard Material | -- |
| T32-45-14 | T32-14 Feet | Roofing Material | -- | None Detected in Roofing Material or Bituminous Material | -- |
| T32-46-207 | T32-207 Feet | Red Tile | -- | None Detected in Tile or Mastic | -- |

sf – square feet
NCI – Non-Friable Category I Material

## Table 5 – Summary of Analytical Test Results (continued)

| Sample Number | Material Location | Material Description | Approx. Quantity | Result | Category |
|---|---|---|---|---|---|
| T32-47-209 | T32-209 Feet | Blue Tile | -- | None Detected in Tile or Mastic | -- |
| T32-48-214 | T32-214 Feet | White Tile | -- | None Detected in Tile or Mastic | -- |
| T32-49-217 | T32-217 Feet | Pink Spotted Tile | -- | None Detected in Tile or Mastic | -- |
| T32-50-238 | T32-238 Feet | Tan Tile | -- | None Detected in Tile or Mastic | -- |
| T26-51-34 | T26-34 Feet | Green Striped Tile | -- | None Detected in Tile or Mastic | -- |
| T17-52-53 | T17-33 Feet | Tan Checkered Sheet Flooring | -- | None Detected | -- |
| T17-53-33 | T17-33 Feet | Roofing Material | -- | None Detected | -- |
| T17-54-39 | T17-39 Feet | Blue and Tan Sheet Flooring | -- | None Detected | -- |
| T17-55-74 | T17-74 Feet | White with Blue Tile | -- | None Detected | -- |
| T21-56-31 | T21-31 Feet | White Tile with Blue and Pink Pattern | -- | None Detected | -- |
| T21-57-23 | T21-23 Feet | Green Tile | -- | None Detected | -- |
| T16-58-6 | T16-6 Feet | Green Tile | -- | None Detected | -- |
| T16-59-8 | T16-8 Feet | Roofing Material | -- | None Detected | -- |
| T16-60-34 | T16-34 Feet | Black and White Tile | -- | None Detected | -- |
| T10-61-7 | T10-7 Feet | White Tile | -- | None Detected | -- |
| T10-62-30 | T10-30 Feet | Binding Compound | -- | None Detected | -- |
| T10-63-82 | T10-82 Feet | Blue and Yellow with Black Tile | -- | None Detected | -- |
| T10-64-99 | T10-99 Feet | Green with Purple Tile and Backing | -- | None Detected | -- |
| T10-65-99 | T10-99 Feet | Purple with Tan Lining Tile | -- | None Detected | -- |
| T10-66-99 | T10-99 Feet | Green with White Markings Tile | -- | None Detected | -- |
| T10-67-159 | T10-159 Feet | Shingle | -- | None Detected | -- |
| T6-68-8 | T6-8 Feet | Tan Squared Tile | -- | None Detected | -- |
| T6-69-36 | T6-36 Feet | Green Tile | | 20% Chrysotile | NCI |
| T6-70-8 | T6-8 Feet | Shingle | -- | None Detected | -- |
| T5-71-5 | T5-5 Feet | White and Tan Tile | -- | None Detected | -- |
| T5-72-6 | T5-6 Feet | Tan Tile | -- | None Detected | -- |
| T5-73-50 | T4-50 Feet | Black Tile | -- | None Detected | -- |

sf – square feet
NCI – Non-Friable Category I Material

## Table 5 – Summary of Analytical Test Results (continued)

| Sample Number | Material Location | Material Description | Approx. Quantity | Result | Category |
|---|---|---|---|---|---|
| T4-74-50 | T4-50 Feet | Emerald Green Tile | -- | None Detected | -- |
| T4-75-51 | T4-51 Feet | Green Sheet Panels | -- | None Detected | -- |
| T2-76-34 | T2-34 Feet | Shingle | -- | None Detected | -- |
| T2-77-84 | T2-84 Feet | Light Blue Transite | | 25% Chrysotile | NCII |
| T1-78-11 | T1-11 Feet | Dark Gray Tile | -- | None Detected | -- |
| T1-79-30 | T1-30 Feet | Green Tile | | 4% Chrysotile in Tile; None Detected in Yellow Soft Mastic, Black Mastic, or Yellow Spongy Material | NCI |
| T1-80-105 | T1-105 Feet | Roofing Material | -- | None Detected in Roofing Material or Either Layer of Roofing Felt. | -- |
| T1-81-202 | T1-202 Feet | Green Tile | -- | None Detected in Tile or Mastic | -- |
| T1-82-202 | T1-202 Feet | Yellow with Blue Sheet Flooring | -- | None Detected | -- |
| T3-83-18 | T3-18 Feet | White Tile with Blue | -- | None Detected | -- |
| T3-84-113 | T3-113 Feet | Roofing Material | -- | None Detected | -- |
| T3-85-145 | T3-145 Feet | Yellow Sheet Flooring | -- | None Detected | -- |
| T3-86-278 | T3-278 Feet | Blue with White Tile | -- | None Detected | -- |
| T3-87-278 | T3-278 Feet | Black and White Square Tile | -- | None Detected in Tile or Mastic | -- |
| T3-88-278 | T3-278 Feet | Shingle | -- | None Detected | -- |
| T3-89-338 | T3-338 Feet | Shingles | -- | None Detected | -- |
| T8-90-186 | T8-186 Feet | Shingles | -- | None Detected in Shingles or Black and Red Bituminous Material | -- |
| T8-91-216 | T8-216 Feet | Plaster | -- | None Detected | -- |
| T8-92-300 | T8-300 Feet | White with Miscellaneous Colors Tile | -- | None Detected in Tile, Mastic or Backing | -- |
| T19-93-17 | T19-17 Feet | Roofing Material | -- | None Detected | -- |
| T19-94-17 | T19-17 Feet | Tan Sheet Flooring | -- | None Detected | -- |
| T23-95-33 | T23-33 Feet | Roofing Material | -- | None Detected | -- |
| T22-96-42 | T22-42 Feet | White with Brown Design Tile | -- | None Detected | -- |
| T22-97-47 | T22-47 Feet | Gray Tile | -- | None Detected | -- |
| T22-98-5 | T22-5 Feet | Roofing Material | -- | None Detected | -- |
| T28-99-45 | T28-45 Feet | Roofing Material | -- | None Detected | -- |

sf – square feet
NCI – Non-Friable Category I Material
NCII – Non-Friable Category II Material

## Table 5 – Summary of Analytical Test Results (continued)

| Sample Number | Material Location | Material Description | Approx. Quantity | Result | Category |
|---|---|---|---|---|---|
| T28-99-45 | T28-45 Feet | Roofing Material | -- | None Detected | -- |
| T41-100-38 | T41-38 Feet | Roofing Material | -- | None Detected | -- |
| T41-101-94 | T41-94 Feet | Sheet Flooring | -- | None Detected | -- |
| T40-102-360 | T40-360 Feet | Roofing Material | -- | None Detected in Roofing Material or Black Bituminous Material | -- |
| T35-103-46 | T35-46 Feet | Tan Sheet Flooring | -- | None Detected in Flooring or Mastic | -- |
| T35-104-40 | T35-40 Feet | Pink Checkered Tile | -- | None Detected in Pink/Black Tile, Cream Tile or Either Layer of Tan Mastic, 60% Chrysotile in Backing | Friable |
| T35-105-17 | T36-17 Feet | Tan Sheet Flooring | -- | None Detected in Flooring or Mastic | -- |
| T36-106-227 | T36-227 Feet | Plaster | -- | None Detected | -- |
| T47-107-250 | T47-250 Feet | Asphalt Shingle | -- | None Detected | -- |
| T47-108-261 | T47-261 Feet | Linoleum | -- | None Detected | -- |
| T37-109-107 | T37-107 Feet | Gray Tile | -- | None Detected in Tile or Mastic | -- |
| T37-110-78 | T37-78-Feet | Tar | -- | None Detected | -- |
| T45-111-22 | T45-22 Feet | White Tile | -- | None Detected in Tile or Mastic; 60% Chrysotile in Beige Fibrous Material | NCI |
| T44-112-42 | T44-42 Feet | Roofing Material | -- | None Detected | -- |
| T44-113-143 | T44-143 Feet | Tan Tile | -- | None Detected in Tile or Mastic | -- |
| T44-114-210 | T44-210 Feet | Yellow Sheet Flooring | -- | None Detected in Flooring or Mastic | -- |
| T44-115-210 | T44-210 Feet | Blue Tile | -- | None Detected in Tile or Mastic | -- |
| T43-116-36 | T43-36 Feet | Various Colored Tile | -- | None Detected in Beige/Black Tile, Either Layer of Mastic, Red/Black Flooring or Green/Black Flooring | -- |
| T43-117-36 | T43-36 Feet | Tan Textured Tile | -- | None Detected in Tile or Mastic | -- |
| T43-118-50 | T43-50 Feet | Roofing Material | -- | None Detected | -- |
| T60-119-46 | T60-46 Feet | Roofing Material | -- | None Detected | -- |
| T50-120-113 | T50-113 Feet | Green Sheet Flooring | -- | None Detected in Flooring or Mastic | -- |
| T50-121-113 | T50-113 Feet | Tan Tile | -- | None Detected in Flooring or Mastic | -- |

## Table 5 – Summary of Analytical Test Results (continued)

| Sample Number | Material Location | Material Description | Approx. Quantity | Result | Category |
|---|---|---|---|---|---|
| T50-122-82 | T50-82 Feet | Roofing Material | -- | None Detected | -- |
| T50-123-190 | T50-190 Feet | Fireproofing Door | -- | 3% Chrysotile | Friable |
| T47-124-22 | T47-22 Feet | Roofing Material | -- | None Detected | -- |
| T47-125-22 | T47-22 Feet | Wood Vinyl Panel | -- | None Detected | -- |
| T47-126-79 | T47-79 Feet | Roofing Material | -- | None Detected | -- |
| T47-127-69 | T47-69 Feet | Pipe Coating | -- | None Detected in Beige Powdery or Black Pipe Material | -- |
| T62-128-11 | T62-11 Feet | Tan Sheet Flooring | -- | None Detected in Flooring or Mastic | -- |
| T62-129-56 | T62-56 Feet | Dark Blue Tile | -- | None Detected in Tile or Mastic | -- |
| T62-130-56 | T62-56 Feet | Gray Speckled Tile | -- | None Detected in Tile or Mastic | -- |
| T62-131-262 | T62-262 Feet | Yellow Tile | -- | None Detected in Tile or Mastic | -- |
| T63-132-68 | T63-68 Feet | Roofing Material | -- | None Detected | -- |
| T63-133-25 | T63-25 Feet | Pink Sheet Flooring | -- | None Detected | -- |
| T63-134-107 | T63-107 Feet | Drywall | -- | None Detected | -- |
| T68-135-5 | T68-5 Feet | Roofing | -- | None Detected | -- |
| T68-136-233 | T68-233 Feet | Pipe Coating | -- | None Detected | -- |
| T67-137-32 | T67-32 Feet | Plaster | -- | None Detected | -- |
| T64-138-10 | T64-10 Feet | Shingle | -- | None Detected | -- |
| T66-139-80 | T66-80 Feet | Plaster | -- | None Detected | -- |
| T66-140-254 | T66-254 Feet | White Tile | -- | None Detected in Tile or Mastic | -- |
| T66-141-300 | T66-300 Feet | Tan Colored Tile | -- | None Detected in Tile or Mastic | -- |
| T66-142-365 | T66-365 Feet | Roofing | -- | None Detected | -- |
| T66-143-365 | T66-365 Feet | Blue Pattern Sheet Flooring | -- | None Detected in Flooring or Mastic | -- |
| T70-144-65 | T70-65 Feet | Roofing | -- | None Detected | -- |
| T69-145-5 | T69-5 Feet | Roofing | -- | None Detected | -- |
| T69-146-30 | T69-30 Feet | Gray and Tan Sheet Flooring | -- | None Detected in Flooring or Mastic | -- |
| T71-147-50 | T71-50 Feet | Red Tile | -- | None Detected in Tile or Mastic | -- |
| T71-148-140 | T71-140 Feet | Yellow Tile | -- | 20% Chrysotile in Tile; None Detected in Mastic | NCI |
| T71-149-140 | T71-140 Feet | Tan Tile | -- | 2% Chrysotile in Tile; None Detected in Mastic | NCI |

## Table 5 – Summary of Analytical Test Results (continued)

| Sample Number | Material Location | Material Description | Approx. Quantity | Result | Category |
|---|---|---|---|---|---|
| T71-150-339 | T71-388 Feet | Tan and Brown Tile | -- | None Detected in Tile or Mastic | -- |
| T71-151-400 | T71-400 Feet | Shingle | -- | None Detected | -- |
| T76-152-60 | T76-60 Feet | Roofing Material | -- | None Detected | -- |
| T76-153-25 | T76-25 Feet | White and Yellow Sheet Flooring | -- | None Detected in Flooring or Mastic | -- |
| T75-154-77 | T75-77 Feet | Plaster | -- | None Detected | -- |
| T75-155-77 | T75-77 Feet | Roofing Material | -- | None Detected | -- |
| T75-156-50 | T75-50 Feet | Green Sheet Flooring | -- | None Detected | -- |
| T74-157-7 | T74-7 Feet | Roofing Material | -- | None Detected | -- |
| T74-158-100 | T74-100 Feet | Light Blue Sheet Flooring | -- | None Detected in Flooring or Mastic | -- |
| T79-159-30 | T79-30 Feet | Gold Tile | -- | None Detected in Tile or Mastic | -- |
| T50-120-113D | T50-113 Feet | Greet Sheet Flooring | -- | None Detected in Flooring or Mastic | -- |
| T50-121-113D | T50-113 Feet | Tan Tile | -- | None Detected in Tile or Mastic | -- |
| T50-122-82D | T50-82 Feet | Roofing Material | -- | None Detected | -- |
| T50-123-190D | T50-190 Feet | Fireproofing Safe Door, Material | -- | 5% Chrysotile | Friable |
| T47-124-22D | T47-22 Feet | Roofing | -- | None Detected | -- |
| T47-125-22D | T47-22 Feet | Wood Vinyl Panel | -- | None Detected in Panel or Mastic | -- |
| T47-126-79D | T47-79 Feet | Roofing Material | -- | None Detected | -- |
| T47-127-69D | T47-69 Feet | Pipe Coating | -- | None Detected | -- |
| T62-128-11D | T62-11 Feet | Tan Sheet Flooring | -- | None Detected in Flooring or Mastic | -- |
| T62-129-56D | T62-56 Feet | Dark Blue Tile | -- | None Detected in Tile or Mastic | -- |
| T62-130-56D | T62-56 Feet | Gray Speckled Tile | -- | None Detected in Tile or Mastic | -- |
| T62-131-262D | T62-262 Feet | Yellow Tile | -- | None Detected in Tile or Mastic | -- |
| T63-132-68D | T63-68 Feet | Roofing | -- | None Detected | -- |
| T63-133-25D | T63-25 Feet | Pink Sheet Flooring | -- | None Detected | -- |
| T63-134-101D | T63-101 Feet | Drywall | -- | None Detected | -- |
| T68-135-5D | T68-5 Feet | Roofing | -- | None Detected | -- |
| T69-146-30D | T69-30 Feet | Gray and Tan Sheet Flooring | -- | None Detected in Flooring or Mastic | -- |
| T74-157-7D | T74-7 Feet | Roofing Material | -- | None Detected | -- |

Analysis Report

# Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

**Customer:** SCI Engineering, INC. (3842)
**Address:** 130 Point West Blvd
St Charles, MO 63301

**Order #:** 155072

**Received** 01/05/16
**Analyzed** 01/05/16
**Reported** 01/06/16

**Attn:**
**Project:** Nat. Geospatial Intel. Agency
**Location:**
**Number:** 20150461-21

**PO Number:**

**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| 155072-001 | 12/17/15 | T7-1-13 | T7-13' | | |
| Layer 1: Shingle<br>Black, Bituminous/Granular | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| 155072-002 | 12/17/15 | T7-2-52 | T7-52' | | |
| Layer 1: Roofing Material<br>Black, Bituminous | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| 155072-003 | 12/17/15 | T7-3-104 | T7-104' | | |
| Layer 1: Roofing<br>Black/Silver, Hard | | | | None Detected | 100% NON FIBROUS MATERIAL |
| 155072-004 | 12/17/15 | T7-4-150 | T7-150' | | |
| Layer 1: Tile<br>Brown, Hard | | | | None Detected | 100% NON FIBROUS MATERIAL |
| 155072-005 | 12/17/15 | T7-5-177 | T7-177' | | |
| Layer 1: Fibrous Material<br>Beige/Black, Fibrous | | | | None Detected | 65% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>20% NON FIBROUS MATERIAL |
| 155072-006 | 12/17/15 | T7-6-179 | T7-179' | | |
| Layer 1: Sheet Flooring<br>White/Black, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **155072-007** | 12/17/15 | T7-7-187 | T7-187' | | |
| Layer 1: Drywall<br>White, Powdery | | | | None Detected | 2% CELLULOSE FIBER<br>98% NON FIBROUS MATERIAL |
| Layer 2: Paper<br>Brown, Fibrous | | | | None Detected | 65% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>20% NON FIBROUS MATERIAL |
| **155072-008** | 12/17/15 | T7-8-190 | T7-190' | | |
| Layer 1: Roofing<br>Black, Bituminous/Granular | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Plaster<br>Beige, Granular | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155072-009** | 12/17/15 | T7-9-200 | T7-200' | | |
| Layer 1: Plaster<br>Beige/Brown, Granular | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155072-010** | 12/17/15 | T7-10-237 | T7-237' | | |
| Layer 1: Shingle<br>Black, Bituminous/Granular | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Tar<br>Black, Bituminous | | | | None Detected | 2% CELLULOSE FIBER<br>98% NON FIBROUS MATERIAL |
| **155072-011** | 12/17/15 | T7-11-250 | T7-250' | | |
| Layer 1: Tile<br>White/Blue, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Brown, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155072-012** | 12/17/15 | T7-12-248 | T7-248' | | |
| Layer 1: Plaster<br>Beige, Granular | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Textured Material<br>Beige, Granular | | | | None Detected | 100% NON FIBROUS MATERIAL |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **155072-013** | 12/17/15 | T7-13-300 | T7-300' | | |
| Layer 1: Tile<br>White, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Black, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155072-014** | 12/17/15 | T7-14-380 | T7-380' | | |
| Layer 1: Tile<br>White/Black, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 3: Fibrous Material<br>Beige, Fibrous | | | | None Detected | 40% CELLULOSE FIBER<br>40% MINERAL/GLASS WOOL<br>20% NON FIBROUS MATERIAL |
| **155072-015** | 12/17/15 | T7-15-395 | T7-395' | | |
| Layer 1: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Tile<br>White, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 3: Mastic<br>Black, Bituminous<br>No Paper Backing Found. | | | | 3% CHRYSOTILE | 97% NON FIBROUS MATERIAL |
| **155072-016** | 12/17/15 | T13-16-10 | T13-10' | | |
| Layer 1: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Tile<br>Green, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 3: Mastic<br>Black, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 4: Paper<br>Beige, Fibrous | | | | None Detected | 65% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>20% NON FIBROUS MATERIAL |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

**PLM Analysis**

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **155072-017** | 12/17/15 | T13-17-10 | T13-10' | | |
| Layer 1: Tile<br>Yellow, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155072-018** | 12/17/15 | T13-18-24 | T13-24' | | |
| Layer 1: Paper<br>Beige/Black, Fibrous | | | | None Detected | 30% CELLULOSE FIBER<br>30% NON FIBROUS MATERIAL<br>40% SYNTHETIC FIBER |
| Layer 2: Soft Material<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155072-019** | 12/17/15 | T13-19-25 | T13-25' | | |
| Layer 1: Roofing Material<br>Black, Bituminous | | | | None Detected | 2% CELLULOSE FIBER<br>98% NON FIBROUS MATERIAL |
| Layer 2: Fibrous Material<br>Black, Fibrous | | | | None Detected | 65% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>20% NON FIBROUS MATERIAL |
| Layer 3: Bituminous Material<br>Black, Bituminous | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155072-020** | 12/17/15 | T13-20-32 | T13-32' | | |
| Layer 1: Plaster<br>Beige, Granular | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155072-021** | 12/17/15 | T11-21-16 | T11-16' | | |
| Layer 1: Shingle<br>Black, Bituminous/Granular | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155072-022** | 12/17/15 | T12-22-17 | T12-17' | | |
| Layer 1: Drywall<br>White, Powdery | | | | None Detected | 4% CELLULOSE FIBER<br>96% NON FIBROUS MATERIAL |
| **155072-023** | 12/17/15 | T14-23-78 | T14-78' | | |
| Layer 1: Roofing Material<br>Black, Bituminous | | | | 2% CHRYSOTILE | 98% NON FIBROUS MATERIAL |
| Layer 2: Hard Material<br>Beige, Hard | | | | None Detected | 100% NON FIBROUS MATERIAL |

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Method: EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| 155072-024 | 12/17/15 | T14-24-116 | T14-116' | | |
| Layer 1: Roofing Material<br>Silver, Brittle | | | | None Detected | 100% NON FIBROUS MATERIAL |
| 155072-025 | 12/17/15 | T20-25-140 | T20-140' | | |
| Layer 1: Roofing Material<br>Black, Bituminous | | | | None Detected | 2% CELLULOSE FIBER<br>98% NON FIBROUS MATERIAL |
| Layer 2: Fibrous Material<br>Black, Fibrous | | | | None Detected | 65% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>20% NON FIBROUS MATERIAL |
| 155072-026 | 12/17/15 | T20-26-169 | T20-169' | | |
| Layer 1: Shingle<br>Black, Bituminous/Granular | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| 155072-027 | 12/17/15 | T20-27-178 | T20-178' | | |
| Layer 1: Tile<br>Brown, Organically Bound | | | | None Detected | 2% CELLULOSE FIBER<br>98% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| 155072-028 | 12/17/15 | T20-28-180 | T20-180' | | |
| Layer 1: Wrap<br>Beige/Black, Fibrous | | | | None Detected | 65% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>20% NON FIBROUS MATERIAL |
| 155072-029 | 12/17/15 | T20-29-219 | T20-219' | | |
| Layer 1: Plaster<br>Beige, Granular | | | | None Detected | 100% NON FIBROUS MATERIAL |
| 155072-030 | 12/17/15 | T20-30-263 | T20-263' | | |
| Layer 1: Sheet Flooring<br>Brown, Organically Bound | | | | None Detected | 3% CELLULOSE FIBER<br>97% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |

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Method: EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **155072-031** | 12/17/15 | T20-31-341 | T20-341' | | |
| Layer 1: Tile<br>White, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 3: Brittle Material<br>Black, Brittle | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155072-032** | 12/17/15 | T20-32-352 | T20-352' | | |
| Layer 1: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Tile<br>Green, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 3: Mastic<br>Black, Bituminous | | | | None Detected | 2% CELLULOSE FIBER<br>98% NON FIBROUS MATERIAL |
| **155072-033** | 12/17/15 | T25-33-193 | T25-193' | | |
| Layer 1: Roofing Material<br>Black, Bituminous | | | | None Detected | 3% CELLULOSE FIBER<br>97% NON FIBROUS MATERIAL |
| Layer 2: Fibrous Material<br>Black, Fibrous | | | | None Detected | 65% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>20% NON FIBROUS MATERIAL |
| **155072-034** | 12/17/15 | T25-34-239 | T25-239' | | |
| Layer 1: Wire<br>Beige, Fibrous | | | | None Detected | 90% MINERAL/GLASS WOOL<br>10% NON FIBROUS MATERIAL |
| **155072-035** | 12/17/15 | T25-35-295 | T25-295' | | |
| Layer 1: Sheet Flooring<br>Gold, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Granular Material<br>Beige, Granular | | | | None Detected | 100% NON FIBROUS MATERIAL |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

**PLM Analysis**

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **155072-036** | 12/17/15 | T25-36-300 | T25-300' | | |
| Layer 1: Tile<br>Red, Rubbery | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155072-037** | 12/17/15 | T25-37-330 | T25-330' | | |
| Layer 1: Tile<br>White, Org.Bound/Fibrous | | | | None Detected | 40% MINERAL/GLASS WOOL<br>60% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155072-038** | 12/17/15 | T31-38-132 | T31-132' | | |
| Layer 1: Flooring<br>Yellow/Beige, Org.Bound/Fibrous | | | | 20% CHRYSOTILE | 20% CELLULOSE FIBER<br>10% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155072-039** | 12/17/15 | T31-39-133 | T31-133' | | |
| Layer 1: Tile<br>Blue, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Brown, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155072-040** | 12/17/15 | T31-40-133 | T31-133' | | |
| Layer 1: Tile<br>White/Blue, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Brown, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155072-041** | 12/17/15 | T31-41-110 | T31-110' | | |
| Layer 1: Roofing Material<br>Black, Bituminous | | | | None Detected | 2% CELLULOSE FIBER<br>98% NON FIBROUS MATERIAL |
| Layer 2: Fibrous Material<br>Black, Fibrous | | | | None Detected | 65% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>20% NON FIBROUS MATERIAL |
| Layer 3: Soft Material<br>Brown, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

**PLM Analysis**

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **155072-042** | 12/17/15 | T31-42-51 | T31-51 | | |
| Layer 1: Sheet Flooring<br>Beige/Black, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Brown, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155072-043** | 12/17/15 | T31-43-51 | T31-51 | | |
| Layer 1: Plaster<br>Beige, Granular | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155072-044** | 12/17/15 | T31-44-460 | T31-460 | | |
| Layer 1: Roofing Material<br>Black, Bituminous | | | | None Detected | 2% CELLULOSE FIBER<br>98% NON FIBROUS MATERIAL |
| Layer 2: Fibrous Material<br>Black, Fibrous | | | | None Detected | 65% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>20% NON FIBROUS MATERIAL |
| Layer 3: Hard Material<br>Beige, Hard | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155072-045** | 12/17/15 | T32-45-14 | T32-14 | | |
| Layer 1: Roofing Material<br>Black, Bituminous | | | | None Detected | 65% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>20% NON FIBROUS MATERIAL |
| Layer 2: Bituminous Material<br>Black, Bituminous | | | | None Detected | 2% CELLULOSE FIBER<br>98% NON FIBROUS MATERIAL |
| **155072-046** | 12/17/15 | T32-46-207 | T32-207 | | |
| Layer 1: Tile<br>Red, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155072-047** | 12/17/15 | T32-47-209 | T32-209 | | |
| Layer 1: Tile<br>Blue/White, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Brown, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |

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Method: EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| 155072-048 | 12/17/15 | T32-48-214 | T32-214' | | |
| Layer 1: Tile<br>White/Beige, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Brown, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| 155072-049 | 12/17/15 | T32-49-217 | T32-217' | | |
| Layer 1: Tile<br>Pink/Beige, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Brown, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| 155072-050 | 12/17/15 | T32-50-238 | T32-238' | | |
| Layer 1: Tile<br>Tan, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| 155072-051 | 12/17/15 | T26-51-34 | T26-34' | | |
| Layer 1: Tile<br>Green, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |

Mohammed Hashim

**Analyst: Hashim, Mohammed**
**Total layers analyzed on order: 96**
**155072-01/06/16 08:42 AM**

John Wilson

Reviewed By: **John Wilson**
Analyst

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# BULK ASBESTOS CHAIN OF CUSTODY

130 Point West Boulevard
St. Charles, Missouri 63301
636-949-8200 Fax 636-949-8269
www.sciengineering.com

| | | | |
|---|---|---|---|
| Company: | SCI Engineering, Inc. | Please Provide Results Via: | ☐ Fax ☒ Email ☐ Mail |
| Street: | 130 Point West Boulevard | To: Ben Butterfield | |
| City/State/Zip: | St. Charles, Missouri 63301 | Telephone #: | Fax #: 636-949-8269 |
| Project Name: | National Geospatial Intellicence Agency | Email: bbutterfield@sciengineering.com | |
| Project Number: | 20150461.21 | | |

Turnaround Time (TAT) Options - Please Check One

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ Other 5-Day

*PLM Bulk Analysis*
- ☒ PLM-EPA 600
- ☐ PLM-EPA 600 NOB
- ☐ PLM-Point Count

*TEM Bulk Analysis*
- ☐ TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1
- ☐ Chatfield Protocol (semi-quantitative)

☐ Check Box for Stop Positive

Comments:

Samplers Name: Megan Sawyer | Samplers Signature: Megan Sawyer | Date Sampled: 12/17-12/29/2015 MS

Building Use/Description/Features: | Age: | Size:

Windows: | Siding: | Roof: | Attic: | HVAC:

| Sample # | Material Location | Material Description | Approx. Quantity | Condition | Comments |
|---|---|---|---|---|---|
| T7-1-13 MS | T7-13 Feet | Shingle | - | poor | |
| T7-2-52 | T7-52 Feet | Roofing material | - | poor | |
| T7-3-104 | T7-104 Feet | Roofing Slate | - | poor | |
| T7-4-150 | T7-150 Feet | Brown Tile | - | poor | |
| T7-5-177 | T7-177 Feet | Binding Compound | - | poor | |
| T7-6-179 | T7-179 Feet | White Sheet Flooring | - | poor | |
| T7-7-187 | T7-187 Feet | Drywall with wall paper | - | poor | |
| T7-8-190 | T7-190 Feet | Binding Compound with plaster | - | poor | |
| T7-9-200 | T7-200 Feet | Plaster | - | poor | |

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| | | | | | |
|---|---|---|---|---|---|
| Relinquished: | Megan Sawyer | Date: | 12/29/2015 | Time: | 4:40 pm |
| Received: | [illegible] | Date: | 1-5-16 | Time: | 10 AM |



WPS 2316 s

**Project Name/Number** NSA /20150416.21

| Sample # | Material Location | Material Description | Approx. Quantity | Condition | Comments |
|---|---|---|---|---|---|
| T7-10-237 | T7-237 Feet | Shingle with Tar | - | poor | |
| T7-11-250 | T7-250 Feet | White Tile | - | poor | |
| T7-12-248 | T7-248 Feet | Plaster | - | poor | |
| T7-13-300 | T7-300 Feet | White Tile | - | poor | |
| T7-14-380 | T7-380 Feet | White Tile | - | poor | |
| T7-15-395 | T7-395 Feet | Tile with paper backing | - | poor | |
| T13-16-10 | T13-10 Feet | Green tile with paper backing | - | poor | |
| T13-17-10 | T13-10 Feet | Yellow Tile | - | poor | |
| T13-18-24 | T13-24 Feet | Binding material paper backing | - | poor | |
| T13-19-25 | T13-25 Feet | Roofing material | - | poor | |
| T13-20-32 | T13-32 Feet | Plaster | - | poor | |
| T11-21-16 | T11-16 Feet | Shingles | - | poor | |
| T12-22-17 | T12-17 Feet | Drywall | - | poor | |
| T14-23-78 | T14-78 Feet | Roofing Material | - | poor | |
| T14-24-116 | T14-116 Feet | Roofing Material | - | poor | |
| T20-25-140 | T20-140 Feet | Roofing Material | - | poor | |
| T20-26-169 | T20-~~26 Feet~~ 169 feet MS | Shingle | - | poor | |
| T20-27-178 | T20-~~27 Feet~~ 178 feet MS | Brown Tile | - | poor | |
| T20-28-180 | T20-180 Feet | Wire Wrap | - | poor | |
| T20-29-219 | T20-219 Feet | Plaster | - | poor | |
| T20-30-263 | T20-263 Feet | Sheet Flooring | - | poor | |

Fax: 1-5-16

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**Project Name/Number** NSA/20150461.21

| Sample # | Material Location | Material Description | Approx. Quantity | Condition | Comments |
|---|---|---|---|---|---|
| T20-31-341 | T20-341 Feet | White Tile | - | poor | |
| T20-32-352 | T20-352 Feet | Green Tile | - | poor | |
| T25-33-193 | T25-193 Feet | Roofing Material | - | poor | |
| T25-34-239 | T25-239 Feet | Wire Wrap | - | poor | |
| T25-35-295 | T25-295 Feet | Gold Sheet Flooring | - | poor | |
| T25-36-300 | T25-300 Feet | Red Tile | - | poor | |
| T25-37-330 | T25-330 Feet | White Tile | - | poor | |
| T31-38-132 | T31-132 Feet | Yellow-Spotted Stile | - | poor | |
| T31-39-133 | T31-133 Feet | Blue Tile | - | poor | |
| T31-40-133 | T31-133 Feet | White with blue tile | - | poor | |
| T31-41-110 | T31-110 Feet | Roofing Material | - | poor | |
| T31-42-51 | T31- 51 Feet | Sheet Flooring Snake Design | - | poor | |
| T31-43-51 | T31-51 Feet | Plaster | - | poor | |
| T31-44-460 | T31-460 Feet | Roofing material | - | poor | |
| T32-45-14 | T32-14 Feet | Roofing material | - | poor | |
| T32-46-207 | T32-207 Feet | Red Tile | - | poor | |
| T32-47-209 | T32-209 Feet | Blue Tile | - | poor | |
| T32-48-214 | T32-214 Feet | White Tile | - | poor | |
| T32-49-217 | T32-217 Feet | Pink Spotted Tile | - | poor | |
| T32-50-238 | T32-238 Feet | Tan Tile | - | poor | |
| T26-51-34 | T26-34 Feet | Green Striped Tile | - | poor | |

Fax 1-5-16

**Analysis Report**

# Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

**Customer:** SCI Engineering, INC. (3842)
**Address:** 130 Point West Blvd
St Charles, MO 63301

**Order #:** 155921

**Received** 01/14/16
**Analyzed** 01/14/16
**Reported** 01/15/16

**Attn:**

**Project:** Nat. Geospatial Intel. Agency
**Location:**
**Number:** 2015-0461.21

**PO Number:**

**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **155921-001** | 01/08/16 | T17-52-33 | T17-33 Feet | | |
| Layer 1: Sheet Flooring<br>Tan/Black, Org.Bound/Fibrous | | | | None Detected | 65% NON FIBROUS MATERIAL<br>35% SYNTHETIC FIBER |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-002** | 01/08/16 | T17-53-33 | T7-33 Feet | | |
| Layer 1: Roofing Material<br>Black, Bituminous/Fibrous | | | | None Detected | 10% CELLULOSE FIBER<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-003** | 01/08/16 | T17-54-39 | T17-39 Feet | | |
| Layer 1: Sheet Flooring<br>Tan/Blue/Black, Org.Bound/Fibrous | | | | None Detected | 92% NON FIBROUS MATERIAL<br>8% SYNTHETIC FIBER |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-004** | 01/08/16 | T17-55-74 | T17-74 Feet | | |
| Layer 1: Tile<br>Tan/Blue/Black, Org.Bound/Fibrous | | | | None Detected | 90% NON FIBROUS MATERIAL<br>10% SYNTHETIC FIBER |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-005** | 01/08/16 | T21-56-31 | T21-31 Feet | | |
| Layer 1: Tile<br>White/Blue, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155921-006** | 01/08/16 | T21-57-23 | T21-23 Feet | | |
| Layer 1: Tile<br>Green/White, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155921-007** | 01/08/16 | T16-58-6 | T16-6 Feet | | |
| Layer 1: Tile<br>Green/White, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **155921-008** | 01/08/16 | T16-59-8 | T16-8 Feet | | |
| Layer 1: Roofing Material<br>Black, Bituminous/Fibrous | | | | None Detected | 12% CELLULOSE FIBER<br>88% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-009** | 01/08/16 | T16-60-34 | T16-34 Feet | | |
| Layer 1: Tile<br>Black/White, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155921-010** | 01/08/16 | T10-61-7 | T10-7 Feet | | |
| Layer 1: Tile<br>White/Green, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155921-011** | 01/08/16 | T10-62-30 | T10-30 Feet | | |
| Layer 1: Binding Compound<br>White/Black, Org.Bound/Fibrous | | | | None Detected | 60% CELLULOSE FIBER<br>40% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-012** | 01/08/16 | T10-63-82 | T10-82 Feet | | |
| Layer 1: Tile<br>Blue/Yellow, Org.Bound/Fibrous | | | | None Detected | 88% NON FIBROUS MATERIAL<br>12% SYNTHETIC FIBER |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-013** | 01/08/16 | T10-64-99 | T10-99 Feet | | |
| Layer 1: Tile<br>Green/Purple, Org.Bound/Fibrous | | | | None Detected | 45% CELLULOSE FIBER<br>55% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-014** | 01/08/16 | T10-65-99 | T10-99 Feet | | |
| Layer 1: Tile<br>Purple/Beige, Org.Bound/Fibrous | | | | None Detected | 45% CELLULOSE FIBER<br>55% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-015** | 01/08/16 | T10-66-99 | T10-99 Feet | | |
| Layer 1: Tile<br>Green/White, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155921-016** | 01/08/16 | T10-67-159 | T10-15 Feet | | |
| Layer 1: Shingle<br>Black/Green, Bituminous/Granular | | | | None Detected | 5% CELLULOSE FIBER<br>95% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **155921-017** | 01/08/16 | T6-68-8 | T6-8 Feet | | |
| Layer 1: Tile<br>Beige/Tan, Org.Bound/Fibrous | | | | None Detected | 30% CELLULOSE FIBER<br>70% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-018** | 01/08/16 | T6-69-36 | T6-36 Feet | | |
| Layer 1: Tile<br>Green/Gray, Hard | | | | 20% CHRYSOTILE | 80% NON FIBROUS MATERIAL |
| **155921-019** | 01/08/16 | T6-70-8 | T6-8 Feet | | |
| Layer 1: Shingle<br>Black/Gray, Bituminous/Granular | | | | None Detected | 10% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-020** | 01/08/16 | T5-71-5 | T5-5 Feet | | |
| Layer 1: Tile<br>White/Tan, Organically Bound | | | | None Detected | 10% CELLULOSE FIBER<br>90% NON FIBROUS MATERIAL |
| **155921-021** | 01/08/16 | T5-72-6 | T5-6 Feet | | |
| Layer 1: Tile<br>Tan, Org.Bound/Fibrous | | | | None Detected | 40% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>55% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-022** | 01/08/16 | T4-73-50 | T4-50 Feet | | |
| Layer 1: Tile<br>Black/White, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155921-023** | 01/08/16 | T4-74-50 | T4-50 Feet | | |
| Layer 1: Tile<br>Green/White, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155921-024** | 01/08/16 | T4-75-51 | T4-51 Feet | | |
| Layer 1: Sheet Panel<br>Green/White, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Beige, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155921-025** | 01/08/16 | T2-76-34 | T2-34 Feet | | |
| Layer 1: Shingle<br>Black, Bituminous/Granular | | | | None Detected | 10% CELLULOSE FIBER<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **155921-026** | 01/08/16 | T2-77-84 | T2-84 Feet | | |
| Layer 1: Transite<br>Light Blue, Hard | | | | 25% CHRYSOTILE | 75% NON FIBROUS MATERIAL |
| **155921-027** | 01/08/16 | T1-78-11 | T1-11 Feet | | |
| Layer 1: Tile<br>Dark Gray, Organically Bound | | | | None Detected | 12% CELLULOSE FIBER<br>88% NON FIBROUS MATERIAL |
| **155921-028** | 01/08/16 | T1-79-30 | T1-30 Feet | | |
| Layer 1: Mastic<br>Yellow, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Tile<br>Green, Organically Bound | | | | 4% CHRYSOTILE | 2% CELLULOSE FIBER<br>94% NON FIBROUS MATERIAL |
| Layer 3: Mastic<br>Black, Bituminous | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 4: Spongy Material<br>Yellow, Spongy | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155921-029** | 01/08/16 | T1-80-105 | T1-105 Feet | | |
| Layer 1: Roofing Material<br>Black/Gray, Bituminous/Granular | | | | None Detected | 15% MINERAL/GLASS WOOL<br>85% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Roof Felt<br>Black, Bituminous/Fibrous | | | | None Detected | 40% MINERAL/GLASS WOOL<br>60% NON FIBROUS MATERIAL |
| Layer 3: Roof Felt<br>Black, Bituminous/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>65% NON FIBROUS MATERIAL |
| **155921-030** | 01/08/16 | T1-81-202 | T1-202 Feet | | |
| Layer 1: Tile<br>Green, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Beige, Brittle | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155921-031** | 01/08/16 | T1-82-202 | T1-202 Feet | | |
| Layer 1: Sheet Flooring<br>Yellow/Blue, Org.Bound/Fibrous | | | | None Detected | 90% NON FIBROUS MATERIAL<br>10% SYNTHETIC FIBER |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **155921-032** | 01/08/16 | T3-83-18 | T3-18 Feet | | |
| Layer 1: Tile<br>White/Blue, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155921-033** | 01/08/16 | T3-84-113 | T3-113 Feet | | |
| Layer 1: Roofing Material<br>Black, Bituminous/Fibrous | | | | None Detected | 12% CELLULOSE FIBER<br>88% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-034** | 01/08/16 | T3-85-145 | T3-145 Feet | | |
| Layer 1: Sheet Flooring<br>Yellow/Gray, Org.Bound/Fibrous | | | | None Detected | 30% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>65% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-035** | 01/08/16 | T3-86-278 | T3-278 Feet | | |
| Layer 1: Tile<br>Blue/White, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155921-036** | 01/08/16 | T3-87-278 | T3-278 Feet | | |
| Layer 1: Tile<br>Black/White, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Yellow, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155921-037** | 01/08/16 | T3-88-278 | T3-278 Feet | | |
| Layer 1: Shingle<br>Black/Gray, Bituminous/Granular | | | | None Detected | 8% MINERAL/GLASS WOOL<br>92% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-038** | 01/08/16 | T3-89-338 | T3-338 Feet | | |
| Layer 1: Shingle<br>Black/Gray, Bituminous/Granular | | | | None Detected | 12% MINERAL/GLASS WOOL<br>88% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-039** | 01/08/16 | T8-90-186 | T8-186 Feet | | |
| Layer 1: Shingle<br>Black/Gray, Bituminous/Granular | | | | None Detected | 10% CELLULOSE FIBER<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Bituminous Material<br>Black/Red, Bituminous/Fibrous | | | | None Detected | 30% CELLULOSE FIBER<br>70% NON FIBROUS MATERIAL |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **155921-040** | 01/08/16 | T8-91-216 | T8-216 Feet | | |
| Layer 1: Plaster<br>Beige, Granular | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155921-041** | 01/08/16 | T8-92-300 | T8-300 Feet | | |
| Layer 1: Tile<br>White, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Green, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 3: Backing<br>Black, Bituminous/Fibrous | | | | None Detected | 88% NON FIBROUS MATERIAL<br>12% SYNTHETIC FIBER |
| **155921-042** | 01/08/16 | T19-93-17 | T19-17 Feet | | |
| Layer 1: Roofing Material<br>Black, Bituminous/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>65% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-043** | 01/08/16 | T19-94-17 | T19-17 Feet | | |
| Layer 1: Sheet Flooring<br>Tan/Black, Bituminous/Fibrous | | | | None Detected | 40% CELLULOSE FIBER<br>60% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-044** | 01/08/16 | T23-95-33 | T23-33 Feet | | |
| Layer 1: Roofing Material<br>Black, Bituminous/Granular | | | | None Detected | 10% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-045** | 01/08/16 | T22-96-42 | T22-42 Feet | | |
| Layer 1: Tile<br>White/Brown, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>65% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-046** | 01/08/16 | T22-97-47 | T22-47 Feet | | |
| Layer 1: Tile<br>Gray, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **155921-047** | 01/08/16 | T22-98-5 | T22-5 Feet | | |
| Layer 1: Roofing Material<br>Black/Beige, Org.Bound/Fibrous | | | | None Detected | 80% NON FIBROUS MATERIAL<br>20% SYNTHETIC FIBER |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **155921-048** | 01/08/16 | T28-99-45 | T28-45 Feet | | |
| Layer 1: Roofing Material<br>Black, Bituminous/Fibrous | | | | None Detected | 15% CELLULOSE FIBER<br>85% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-049** | 01/08/16 | T41-100-38 | T41-38 Feet | | |
| Layer 1: Roofing Material<br>Black/Brown/Tan, Bituminous/Granular | | | | None Detected | 10% CELLULOSE FIBER<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **155921-050** | 01/08/16 | T41-101-94 | T41-94 Feet | | |
| Layer 1: Sheet Flooring<br>Tan/Brown, Org.Bound/Fibrous | | | | None Detected | 65% NON FIBROUS MATERIAL<br>35% SYNTHETIC FIBER |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |

**Analyst: Hashim, Reel**

**Total layers analyzed on order: 61**

**155921-01/15/16 09:16 AM**

Reviewed By: **Hind Eldanaf**
Microscopy Supervisor

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155921

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# SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com e-mail: info@slabinc.com

| | | | | | |
|---|---|---|---|---|---|
| Submitting Co. | SCI Engineering | Lab WO# | | Phone | |
| | | Acct # | | Fax / Email | |
| | | **State of Collection | | **Cert. Required | ☐ Yes ☐ No |

| | | |
|---|---|---|
| Project Name: | National Geospatial Intelligence Agency | Special Instructions [include requests for special reporting or data packages] |
| Project Location: | | |
| Project Number: | 2015-0461.21 | |
| PO Number: | | |

**Turn Around Time**

- ☐ 2 hours*
- ☐ Same day*
- ☐ 1 business day*
- ☐ 2 business days*
- ☐ 3 business days*
- ☐ 5 business days*

* not available for all tests

*Schedule rush organics, multi-metals & weekend tests in advance.*

**Matrix / Sample Type (Select ONE)**

*All samples on form should be of SAME matrix type. Use additional forms as needed.*

| | |
|---|---|
| ☐ Air | ☐ Solid |
| ☐ Aqueous | ☐ Waste |
| ☐ Bulk | ☐ Wastewater |
| ☐ Hi-Vol Filter (PM10) | ☐ Water,Drinking |
| ☐ Hi-Vol Filter (TSP) | ☐ Compliance |
| ☐ Oil | ☐ Wipe |
| ☐ Paint | ☐ Wipe, Composite |
| ☐ Sludge | ☐ _____ |
| ☐ Soil | ☐ _____ |

**Tests / Analytes (Select ALL that Apply)**

| Asbestos in Air | Asbestos in Bulk | Metals-Total |
|---|---|---|
| ☐ PCM (NIOSH 7400) | ☒ PLM | ☐ Lead |
| ☐ TEM (AHERA) | ☐ PLM (Point Count) | ☐ RCRA Metals |
| ☐ TEM (EPA Level II) | ☐ PLM (Qualitative only) | **TCLP** |
| **Miscellaneous Tests** | ☐ NYELAP | ☐ TCLP / Lead |
| ☐ Total Dust (NIOSH 0500) | ☐ CAELAP (Point Count) | ☐ TCLP / RCRA Metals |
| ☐ Resp. Dust (NIOSH 0600) | ☐ TEM (Chatfield) | ☐ TCLP / Full (w/ organics) 10 day |
| ☐ Silica - FTIR (NIOSH 7602) | ☐ _____ | **Microbiology** |
| ☐ Silica - XRD (NIOSH 7500) | **FOR ASBESTOS AIR:** | ☐ BACT (MPN & P/A) |
| **Other** | TYPE OF RESPIRATOR | ☐ Mold Direct Exam |
| ☐ _____ | USED: _____ | ☐ _____ |

| Sample # | Date Sampled** | Time Sampled** | Sample Identification (Employee, SSN, Bldg, Material, Type[1]) | Wiped Area (ft²) | pH / Temp * | Time[2] Start | Time[2] Stop | Flow Rate[3] Start | Flow Rate[3] Stop | Total[4] Air |
|---|---|---|---|---|---|---|---|---|---|---|
| See attached SCI document | | | | | | | | | | |
| | | | | | | | | | | |
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[1]Type: A=Area B=Blank P=Personal E=Excursion [2]Beginning/End of Sample Period [3]Pump Calibration in Liters/Minute [4]Volume in Liters [time in min × flow in L/min]

*All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.*

| Sampled by | Relinquished to lab by | |
|---|---|---|
| NAME Megan Sawyer | NAME SCI Engineering | 1-14-16 |
| SIGNATURE | SIGNATURE | |
| DATE / TIME 1/8/2016/5:30 pm | DATE / TIME 1/8/2016 5:30 pm | |

☐ Sample return requested ☐ Ambient temp ☐ Ice ___ CI ___ ☐ R ☐ S ☐ X ☐ Receive a physical copy of report.

**Sample Disposal**
☐ Return to Sender (Shipping fees)
☐ Disposal by lab
($50 fee for excessive weight)

**Shipping Methods**
☐ FX ☐ UPS ☐ USM
☐ HD ☐ DB
WB: 2535

* Temperature taken with IR Gun A. **Required. *Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.*

# BULK ASBESTOS CHAIN OF CUSTODY

130 Point West Boulevard
St. Charles, Missouri 63301
636-949-8200 Fax 636-949-8269
www.sciengineering.com

| | | | |
|---|---|---|---|
| Company : | SCI Engineering, Inc. | Please Provide Results Via: | ☐ Fax ☒ Email ☐ Mail |
| Street: | 130 Point West Boulevard | To: Ben Butterfield | |
| City/State/Zip: | St. Charles, Missouri 63301 | Telephone #: | Fax #: 636-949-8269 |
| Project Name: | National Geospatial Intelligence Agency | Email: bbutterfield@sciengineering.com | |
| Project Number: | 2015-0461.21 | | |

Turnaround Time (TAT) Options - Please Check One

| ☐ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ☒ Other 5-Day |
|---|---|---|---|---|---|---|

| *PLM Bulk Analysis* | *TEM Bulk Analysis* |
|---|---|
| ☒ PLM-EPA 600 | ☐ TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1 |
| ☐ PLM-EPA 600 NOB | ☐ Chatfield Protocol (semi-quantitative) |
| ☐ PLM-Point Count | |

☐ Check Box for Stop Positive

Comments:

| | | |
|---|---|---|
| Samplers Name: Megan Sawyer | Samplers Signature: Megan Sawyer | Date Sampled: 12/30/15-1/8/16 |

| | | | | |
|---|---|---|---|---|
| Building Use/Description/Features: | | | Age: | Size: |
| Windows: | Siding: | Roof: | Attic: | HVAC: |

| Sample # | Material Location | Material Description | Approx. Quantity | Condition | Comments |
|---|---|---|---|---|---|
| T17-52-33 | T17-33 Feet | Tan Checkered Sheet Flooring | - | Poor | |
| T17-53-33 | T17-33 Feet | Roofing Material | - | Poor | |
| T17-54-39 | T17-39 Feet | Blue and Tan Sheet Flooring | - | Poor | |
| T17-55-74 | T17-74 Feet | White with Blue Tile | - | Poor | |
| T21-56-31 | T21-31 Feet | White Tile w/Blue & Pink pattern | - | Poor | |
| T21-57-23 | T21-23 Feet | Green Tile | - | Poor | |
| T16-58-6 | T16-6 Feet | Green Tile | - | Poor | |
| T16-59-8 | T16-8 Feet | Roofing Material | - | Poor | |
| T16-60-34 | T16-34 Feet | Black and White tile | - | Poor | |

| | | |
|---|---|---|
| Relinquished: Megan Sawyer | Date: 1/8/2016 | Time: 6 pm |
| Received: | Date: | Time: |

## Project Name/Number _____

| Sample # | Material Location | Material Description | Approx. Quantity | Condition | Comments |
|---|---|---|---|---|---|
| T10-61-7 | T10-7 Feet | White Tile | - | Poor | |
| T10-62-30 | T10-30 Feet | Binding Compound | - | Poor | |
| T10-63-82 | T10-82 Feet | Blue/yellow with black tile | - | Poor | |
| T10-64-99 | T10-99 Feet | Green with purple tile & backing | _ | Poor | |
| T10-65-99 | T10-99 Feet | Purple with tan lining tile | - | Poor | |
| T10-66-99 | T10-99 Feet | Green with white markings tile | - | Poor | |
| T10-67-159 | T10-159 Feet | Shingle | - | Poor | |
| T6-68-8 | T6-8 Feet | Tan squared Tile | - | Poor | |
| T6-69-36 | T6-36 Feet | Green Tile | - | Poor | |
| T6-70-8 | T6-8 Feet | Shingle | - | Poor | |
| T5-71-5 | T5-5 Feet | White and Tan Tile | - | Poor | |
| T5-72-6 | T5-6 Feet | Tan Tile | - | Poor | |
| T4-73-50 | T4-50 Feet | Black Tile | - | Poor | |
| T4-74-50 | T4-50 Feet | Emerald Green Tile | - | Poor | |
| T4-75-51 | T4-51 Feet | Green Sheet Panels | - | Poor | |
| T2-76-34 | T2-34 Feet | Shingle | - | Poor | |
| T2-77-84 | T2-84 Feet | Light Blue Transite | - | Poor | |
| T1-78-11 | T1-11 Feet | Dark Gray Tile | - | Poor | |
| T1-79-30 | T1-30 Feet | Green Tile | - | Poor | |
| T1-80-105 | T1-105 Feet | Roofing Material | - | Poor | |
| T1-81-202 | T1-202 Feet | Green Tile | - | Poor | |

## Project Name/Number _____

| Sample # | Material Location | Material Description | Approx. Quantity | Condition | Comments |
|---|---|---|---|---|---|
| T1-82-202 | T1-202 Feet | Yellow w/blue sheet flooring | - | poor | |
| T3-83-18 | T3-18 Feet | White tile w/blue | - | Poor | |
| T3-84-113 | T3-113 Feet | Roofing Material | - | Poor | |
| T3-85-145 | T3-145 Feet | Yellow Sheet Flooring | - | Poor | |
| T3-86-278 | T3-278 Feet | Blue with White Tile | - | Poor | |
| T3-87-278 | T3-278 Feet | Black and white square tile | - | Poor | |
| T3-88-278 | T3-278 Feet | Shingle | - | Poor | |
| T3-89-338 | T3-338 Feet | Shingles | - | Poor | |
| T8-90-186 | T8-186 Feet | Shingles | - | Poor | |
| T8-91-216 | T8-216 Feet | Plaster | - | Poor | |
| T8-92-300 | T8-300 Feet | White with misc colors tile | - | Poor | |
| T19-93-17 | T19-17 Feet | Roofing Material | - | Poor | |
| T19-94-17 | T19-17 Feet | Tan Sheet Flooring | - | Poor | |
| T23-95-33 | T23-33 Feet | Roofing Material | - | Poor | |
| T22-96-42 | T22-42 Feet | White with brown design tile | - | Poor | |
| T22-97-47 | T22-47 Feet | Gray Tile | - | Poor | |
| T22-98-5 | T22-5 Feet | Roofing Material | - | Poor | |
| T28-99-45 | T28-45 Feet | Roofing Material | - | Poor | |
| T41-100-38 | T41-38 Feet | Roofing Material | - | Poor | |
| T41-101-94 | T41-94 Feet | Sheeting Flooring | - | Poor | |
| | | | | | |

**Analysis Report**

# Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

**Customer:** SCI Engineering, INC. (3842)
**Address:** 130 Point West Blvd
St Charles, MO 63301

**Order #:** 158020

**Received** 02/05/16
**Analyzed** 02/05/16
**Reported** 02/09/16

**Attn:**

**Project:** NGA
**Location:** St Louis
**Number:** 2015-0461.21

**PO Number:**

**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **158020-001** | 02/01/16 | T40-102-360 | T40-360 FT | | |
| Layer 1: Roofing Material<br>Black/Red, Bituminous/Granular | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Roofing<br>Black, Bituminous | | | | None Detected | 5% CELLULOSE FIBER<br>95% NON FIBROUS MATERIAL |
| **158020-002** | 02/01/16 | T35-103-46 | T35-46 FT | | |
| Layer 1: Sheet Flooring<br>Tan/Black, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **158020-003** | 02/01/16 | T35-104-40 | T35-40 FT | | |
| Layer 1: Tile<br>Pink/Black, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 3: Tile<br>Cream, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 4: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 5: Backing<br>Beige, Fibrous | | | | 60% CHRYSOTILE | 20% CELLULOSE FIBER<br>10% MINERAL/GLASS WOOL<br>10% NON FIBROUS MATERIAL |
| **158020-004** | 02/01/16 | T36-105-17 | T36-17 FT | | |
| Layer 1: Sheet Flooring<br>Tan/Black, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-005** | 02/01/16 | T36-106-227 | T36-227 FT | | |
| Layer 1: Plaster<br>Beige, Granular | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-006** | 02/01/16 | T47-107-250 | T47-250 FT | | |
| Layer 1: Asphalt Shingle<br>Black/Beige, Bituminous/Granular | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **158020-007** | 02/01/16 | T47-108-261 | T47-261 FT | | |
| Layer 1: Linoleum/Mastic<br>Tan/Black, Org.Bound/Soft | | | | None Detected | 2% CELLULOSE FIBER<br>98% NON FIBROUS MATERIAL |
| **Unable to separate individual layers.** | | | | | |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **158020-008** | 02/01/16 | T37-109-107 | T37-107 FT | | |
| Layer 1: Tile<br>Gray, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-009** | 02/01/16 | T37-110-78 | T37-78 FT | | |
| Layer 1: Tar<br>Black, Bituminous | | | | None Detected | 2% CELLULOSE FIBER<br>98% NON FIBROUS MATERIAL |
| **158020-010** | 02/01/16 | T45-111-22 | T45-22 FT | | |
| Layer 1: Tile<br>White, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Black, Bituminous | | | | None Detected | 2% CELLULOSE FIBER<br>98% NON FIBROUS MATERIAL |
| Layer 3: Fibrous Material<br>Beige, Fibrous | | | | 60% CHRYSOTILE | 20% CELLULOSE FIBER<br>10% MINERAL/GLASS WOOL<br>10% NON FIBROUS MATERIAL |
| **158020-011** | 02/01/16 | T44-112-42 | T44-42 FT | | |
| Layer 1: Roofing Material<br>Black, Bituminous/Granular | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **158020-012** | 02/01/16 | T44-113-143 | T44-143 FT | | |
| Layer 1: Tile<br>Tan/Black, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Black, Bituminous | | | | None Detected | 2% CELLULOSE FIBER<br>98% NON FIBROUS MATERIAL |
| **158020-013** | 02/01/16 | T44-114-210 | T44-210 FT | | |
| Layer 1: Sheet Flooring<br>Yellow/Black, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **158020-014** | 02/01/16 | T44-115-210 | T44-210 FT | | |
| Layer 1: Tile<br>Blue, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-015** | 02/01/16 | T43-116-36 | T43-36 FT | | |
| Layer 1: Tile<br>Beige/Black, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 3: Flooring<br>Red/Black, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 4: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 5: Flooring<br>Green/Black, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 6: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-016** | 02/01/16 | T43-117-36 | T43-36 FT | | |
| Layer 1: Tile<br>Tan, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-017** | 02/01/16 | T43-118-50 | T43-50 FT | | |
| Layer 1: Roofing Material<br>Black, Bituminous/Fibrous | | | | None Detected | 60% CELLULOSE FIBER<br>20% NON FIBROUS MATERIAL<br>20% SYNTHETIC FIBER |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **158020-018** | 02/01/16 | T60-119-46 | T60-46 FT | | |
| Layer 1: Roofing Material<br>Black, Bituminous/Fibrous | | | | None Detected | 40% CELLULOSE FIBER<br>20% MINERAL/GLASS WOOL<br>40% NON FIBROUS MATERIAL |
| **158020-019** | 02/01/16 | T50-120-113 | T50-113 FT | | |
| Layer 1: Sheet Flooring<br>Green/Black, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-020** | 02/01/16 | T50-121-113 | T50-113 FT | | |
| Layer 1: Tile<br>Tan, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-021** | 02/01/16 | T50-122-82 | T50-82 FT | | |
| Layer 1: Roofing Material<br>Black, Bituminous/Granular | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **158020-022** | 02/01/16 | T50-123-190 | T50-190 FT | | |
| Layer 1: Fireproofing<br>White, Powdery | | | | 3% CHRYSOTILE | 97% NON FIBROUS MATERIAL |
| **158020-023** | 02/01/16 | T47-124-22 | T47-22 FT | | |
| Layer 1: Roofing Material<br>Black, Bituminous/Granular | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **158020-024** | 02/01/16 | T47-125-22 | T47-22 FT | | |
| Layer 1: Panel<br>Brown, Org.Bound/Fibrous | | | | None Detected | 50% CELLULOSE FIBER<br>20% MINERAL/GLASS WOOL<br>30% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **158020-025** | 02/01/16 | T47-126-79 | T47-79 FT | | |
| Layer 1: Roofing Material<br>Black, Bituminous/Fibrous | | | | None Detected | 20% CELLULOSE FIBER<br>40% NON FIBROUS MATERIAL<br>40% SYNTHETIC FIBER |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **158020-026** | 02/01/16 | T47-127-69 | T47-69 FT | | |
| Layer 1: Pipe Material<br>Beige, Powdery | | | | None Detected | 5% CELLULOSE FIBER<br>95% NON FIBROUS MATERIAL |
| Layer 2: Pipe Material<br>Black, Bituminous | | | | None Detected | 2% CELLULOSE FIBER<br>98% NON FIBROUS MATERIAL |
| **158020-027** | 02/01/16 | T62-128-11 | T62-11 FT | | |
| Layer 1: Sheet Flooring<br>Tan, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-028** | 02/01/16 | T62-129-56 | T62-56 FT | | |
| Layer 1: Tile<br>Dark Blue, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-029** | 02/01/16 | T62-130-56 | T62-56 FT | | |
| Layer 1: Tile<br>Gray, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-030** | 02/01/16 | T62-131-262 | T62-262 FT | | |
| Layer 1: Tile<br>Yellow/Black, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-031** | 02/01/16 | T63-132-68 | T63-68 FT | | |
| Layer 1: Roofing Material<br>Black, Bituminous/Granular | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **158020-032** | 02/01/16 | T63-133-25 | T63-25 FT | | |
| Layer 1: Sheet Flooring<br>Pink/Beige, Fibrous | | | | None Detected | 65% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>20% NON FIBROUS MATERIAL |
| **158020-033** | 02/01/16 | T63-134-107 | T63-107 FT | | |
| Layer 1: Drywall<br>White, Powdery | | | | None Detected | 4% CELLULOSE FIBER<br>96% NON FIBROUS MATERIAL |
| **158020-034** | 02/01/16 | T68-135-5 | T68-5 FT | | |
| Layer 1: Roofing<br>Black, Bituminous | | | | None Detected | 3% CELLULOSE FIBER<br>97% NON FIBROUS MATERIAL |
| **158020-035** | 02/01/16 | T68-136-233 | T68-233 FT | | |
| Layer 1: Pipe Material<br>Black, Fibrous | | | | None Detected | 65% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>20% NON FIBROUS MATERIAL |
| **158020-036** | 02/01/16 | T67-137-32 | T67-32 FT | | |
| Layer 1: Plaster<br>Beige, Granular | | | | None Detected | 2% CELLULOSE FIBER<br>98% NON FIBROUS MATERIAL |
| **158020-037** | 02/01/16 | T64-138-10 | T64-10 FT | | |
| Layer 1: Shingle<br>Black, Bituminous/Granular | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **158020-038** | 02/01/16 | T66-139-80 | T66-80 FT | | |
| Layer 1: Plaster<br>Beige, Granular | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-039** | 02/01/16 | T66-140-254 | T66-254 FT | | |
| Layer 1: Tile<br>White, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-040** | 02/01/16 | T66-141-300 | T66-300 FT | | |
| Layer 1: Tile<br>Tan/Black, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **158020-041** | 02/01/16 | T66-142-365 | T66-365 FT | | |
| Layer 1: Roofing<br>Black, Bituminous | | | | None Detected | 2% CELLULOSE FIBER<br>98% NON FIBROUS MATERIAL |
| **158020-042** | 02/01/16 | T66-143-365 | T66-365 FT | | |
| Layer 1: Sheet Flooring<br>Blue/Black, Organically Bound | | | | None Detected | 3% CELLULOSE FIBER<br>97% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-043** | 02/01/16 | T70-144-65 | T70-65 FT | | |
| Layer 1: Roofing<br>Black, Bituminous/Granular | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **158020-044** | 02/01/16 | T69-145-5 | T69-5 FT | | |
| Layer 1: Roofing<br>Black, Bituminous/Granular | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **158020-045** | 02/01/16 | T69-146-30 | T69-30 FT | | |
| Layer 1: Sheet Flooring<br>Tan/Gray, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Brown, Brittle | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-046** | 02/01/16 | T71-147-50 | T71-50 FT | | |
| Layer 1: Tile<br>Red/Brown, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **158020-047** | 02/01/16 | T71-148-140 | T71-140 FT | | |
| Layer 1: Tile<br>Yellow, Org.Bound/Fibrous | | | | 20% CHRYSOTILE | 20% CELLULOSE FIBER<br>10% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-048** | 02/01/16 | T71-149-140 | T71-140 FT | | |
| Layer 1: Tile<br>Tan, Organically Bound | | | | 2% CHRYSOTILE | 98% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Black, Bituminous | | | | None Detected | 2% CELLULOSE FIBER<br>98% NON FIBROUS MATERIAL |
| **158020-049** | 02/01/16 | T71-150-338 | T71-338 FT | | |
| Layer 1: Tile<br>Tan/Brown, Organically Bound | | | | None Detected | 2% CELLULOSE FIBER<br>98% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Black, Bituminous | | | | None Detected | 2% CELLULOSE FIBER<br>98% NON FIBROUS MATERIAL |
| **158020-050** | 02/01/16 | T71-151-400 | T71-400 FT | | |
| Layer 1: Shingle<br>Black, Bituminous/Granular | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **158020-051** | 02/01/16 | T76-152-60 | T76-60 FT | | |
| Layer 1: Roofing Material<br>Black, Bituminous/Granular | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **158020-052** | 02/01/16 | T76-153-25 | T76-25 FT | | |
| Layer 1: Sheet Flooring<br>White/Yellow/Black, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Yellow, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-053** | 02/01/16 | T75-154-77 | T75-77 FT | | |
| Layer 1: Plaster<br>Beige, Granular | | | | None Detected | 100% NON FIBROUS MATERIAL |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **158020-054** | 02/01/16 | T75-155-77 | T75-77 FT | | |
| Layer 1: Roofing Material<br>Black, Bituminous/Fibrous | | | | None Detected | 65% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>20% NON FIBROUS MATERIAL |
| **158020-055** | 02/01/16 | T75-156-50 | T75-50 FT | | |
| Layer 1: Sheet Flooring<br>Green/Black, Fibrous | | | | None Detected | 65% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>20% NON FIBROUS MATERIAL |
| **158020-056** | 02/01/16 | T74-157-7 | T74-7 FT | | |
| Layer 1: Roofing Material<br>Black, Bituminous/Fibrous | | | | None Detected | 65% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>20% NON FIBROUS MATERIAL |
| **158020-057** | 02/01/16 | T74-158-100 | T74-100 FT | | |
| Layer 1: Sheet Flooring<br>Light Blue, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-058** | 02/01/16 | T79-159-30 | T79-30 FT | | |
| Layer 1: Tile<br>Gold, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-059** | 02/01/16 | T50-120-113D | T50-113 FT | | |
| Layer 1: Sheet Flooring<br>Green/Black, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-060** | 02/01/16 | T50-121-113D | T50-113 FT | | |
| Layer 1: Tile<br>Tan/Black, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **158020-061** | 02/01/16 | T50-122-82D | T50-82 FT | | |
| Layer 1: Roofing Material<br>Black, Bituminous | | | | None Detected | 5% CELLULOSE FIBER<br>95% NON FIBROUS MATERIAL |
| **158020-062** | 02/01/16 | T50-123-190D | T50-190 FT | | |
| Layer 1: Fireproofing<br>White, Powdery | | | | 5% CHRYSOTILE | 95% NON FIBROUS MATERIAL |
| **158020-063** | 02/01/16 | T47-124-22D | T47-22 FT | | |
| Layer 1: Roofing Material<br>Black, Fibrous | | | | None Detected | 65% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>20% NON FIBROUS MATERIAL |
| **158020-064** | 02/01/16 | T47-125-22D | T47-22 FT | | |
| Layer 1: Panel<br>Beige/Brown, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Brown, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-065** | 02/01/16 | T47-126-79D | T47-79 FT | | |
| Layer 1: Roofing Material<br>Black, Bituminous/Fibrous | | | | None Detected | 65% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>20% NON FIBROUS MATERIAL |
| **158020-066** | 02/01/16 | T47-127-69D | T47-69 FT | | |
| Layer 1: Pipe Material<br>Beige, Granular | | | | None Detected | 5% MINERAL/GLASS WOOL<br>95% NON FIBROUS MATERIAL |
| **158020-067** | 02/01/16 | T62-128-11D | T62-11 FT | | |
| Layer 1: Sheet Flooring<br>Tan, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Brown, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-068** | 02/01/16 | T62-129-56D | T62-56 FT | | |
| Layer 1: Tile<br>Dark Blue, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **158020-069** | 02/01/16 | T62-130-56D | T62-56 FT | | |
| Layer 1: Tile<br>Gray, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-070** | 02/01/16 | T62-131-262D | T62-262 FT | | |
| Layer 1: Tile<br>Yellow/White, Organically Bound | | | | None Detected | 100% NON FIBROUS MATERIAL |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |
| **158020-071** | 02/01/16 | T63-132-68D | T63-68 FT | | |
| Layer 1: Roofing<br>Black, Bituminous | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **158020-072** | 02/01/16 | T63-133-25D | T63-25 FT | | |
| Layer 1: Sheet Flooring<br>Pink/Black, Org.Bound/Fibrous<br>No Mastic Found. | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| **158020-073** | 02/01/16 | T63-134-101D | T63-101 FT | | |
| Layer 1: Drywall<br>White, Powdery | | | | None Detected | 4% CELLULOSE FIBER<br>96% NON FIBROUS MATERIAL |
| **158020-074** | 02/01/16 | T68-135-5D | T68-5 FT | | |
| Layer 1: Roofing<br>Black, Bituminous | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |
| **158020-075** | 02/01/16 | T69-146-30D | T69-30 FT | | |
| Layer 1: Sheet Flooring<br>Tan/Gray, Org.Bound/Fibrous | | | | None Detected | 35% CELLULOSE FIBER<br>15% MINERAL/GLASS WOOL<br>50% NON FIBROUS MATERIAL |
| **Sample was inhomogenous, subsamples of each component were analyzed separately.** | | | | | |
| Layer 2: Mastic<br>Tan, Soft | | | | None Detected | 100% NON FIBROUS MATERIAL |

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**Method:** EPA 600/R-93/116 & 600/M4-82-020

## PLM Analysis

| Sample ID | Collected | Cust. ID | Location | Asbestos Fibers | Other Materials |
|---|---|---|---|---|---|
| **158020-076** | 02/01/16 | T74-157-7D | T74-7 FT | | |
| Layer 1: Roofing Material<br>Black, Bituminous/Granular | | | | None Detected | 5% CELLULOSE FIBER<br>5% MINERAL/GLASS WOOL<br>90% NON FIBROUS MATERIAL |

**Sample was inhomogenous, subsamples of each component were analyzed separately.**

**Analyst: Hashim, Mohammed**

**Total layers analyzed on order: 121**

**158020-02/09/16 09:20 AM**

Reviewed By: **Hind Eldanaf**

Microscopy Supervisor

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158020

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# SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com e-mail: info@slabinc.com

| | | | | | |
|---|---|---|---|---|---|
| Submitting Co. | SCI Engineering | Lab WO# | | Phone | |
| | | Acct # | | Fax / Email | |
| | | **State of Collection | MO | **Cert. Required | ☒ Yes ☐ No |
| Project Name: | NGA | Special Instructions [include requests for special reporting or data packages] | | | |
| Project Location: | St. Louis | | | | |
| Project Number: | 2015-0461.21 | | | | |
| PO Number: | | | | | |

**Turn Around Time**

- ☐ 2 hours*
- ☐ Same day*
- ☐ 1 business day*
- ☐ 2 business days*
- ☐ 3 business days*
- ☐ 5 business days*

* not available for all tests

*Schedule rush organics, multi-metals & weekend tests in advance.*

**Matrix / Sample Type (Select ONE)**

*All samples on form should be of SAME matrix type. Use additional forms as needed.*

| | |
|---|---|
| ☐ Air | ☐ Solid |
| ☐ Aqueous | ☐ Waste |
| ☐ Bulk | ☐ Wastewater |
| ☐ Hi-Vol Filter (PM10) | ☐ Water,Drinking |
| ☐ Hi-Vol Filter (TSP) | ☐ Compliance |
| ☐ Oil | ☐ Wipe |
| ☐ Paint | ☐ Wipe, Composite |
| ☐ Sludge | ☐ _____ |
| ☐ Soil | ☐ _____ |

**Tests / Analytes (Select ALL that Apply)**

| Asbestos in Air | Asbestos in Bulk | Metals-Total |
|---|---|---|
| ☐ PCM (NIOSH 7400) | ☒ PLM | ☐ Lead |
| ☐ TEM (AHERA) | ☐ PLM (Point Count) | ☐ RCRA Metals |
| ☐ TEM (EPA Level II) | ☐ PLM (Qualitative only) | **TCLP** |
| **Miscellaneous Tests** | ☐ NYELAP | ☐ TCLP / Lead |
| ☐ Total Dust (NIOSH 0500) | ☐ CAELAP (Point Count) | ☐ TCLP / RCRA Metals |
| ☐ Resp. Dust (NIOSH 0600) | ☐ TEM (Chatfield) | ☐ TCLP / Full (w/ organics) 10 day |
| ☐ Silica - FTIR (NIOSH 7602) | ☐ _____ | **Microbiology** |
| ☐ Silica - XRD (NIOSH 7500) | **FOR ASBESTOS AIR:** | ☐ BACT (MPN & P/A) |
| **Other** | TYPE OF RESPIRATOR | ☐ Mold Direct Exam |
| ☐ _____ | USED: _____ | ☐ _____ |

| Sample # | Date Sampled** | Time Sampled** | Sample Identification (Employee, SSN, Bldg, Material, Type[1]) | Wiped Area (ft²) | pH / Temp * | Time[2] Start | Time[2] Stop | Flow Rate[3] Start | Flow Rate[3] Stop | Total[4] Air |
|---|---|---|---|---|---|---|---|---|---|---|
| see SCI Chain of Custody | | | | | | | | | | |
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[1]Type: A=Area B=Blank P=Personal E=Excursion [2]Beginning/End of Sample Period [3]Pump Calibration in Liters/Minute [4]Volume in Liters [time in min × flow in L/min]

*All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.*

| Sampled by | Relinquished to lab by | | Sample Disposal |
|---|---|---|---|
| NAME Megan Sawyer | NAME _____ | 2-5-16 | ☐ Return to Sender (Shipping fees) |
| SIGNATURE Megan Sawyer | SIGNATURE _____ | | ☐ Disposal by lab ($50 fee for excessive weight) |
| DATE / TIME 2/1/16 / 8:30am | DATE / TIME _____ | | **Shipping Methods** |
| ☐ Sample return requested ☐ Ambient temp ☐ Ice ____ CI ____ ☐ R ☐ S ☐ X | | ☐ Receive a physical copy of report. | ☐ FX ☒ UPS ☐ USM ☐ HD ☐ DB WB: 4940 |

* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.

# BULK ASBESTOS CHAIN OF CUSTODY

130 Point West Boulevard
St. Charles, Missouri 63301
636-949-8200 Fax 636-949-8269
www.sciengineering.com

| | | | |
|---|---|---|---|
| Company : | SCI Engineering, Inc. | Please Provide Results Via: | ☐ Fax ☒ Email ☐ Mail |
| Street: | 130 Point West Boulevard | To: Ben Butterfield | |
| City/State/Zip: | St. Charles, Missouri 63301 | Telephone #: | Fax #: 636-949-8269 |
| Project Name: | NGA | Email: bbutterfield@sciengineering.com | |
| Project Number: | 2015-0461.21 | | |

Turnaround Time (TAT) Options - Please Check One

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ Other 5- Day

*PLM Bulk Analysis*
- ☒ PLM-EPA 600
- ☐ PLM-EPA 600 NOB
- ☐ PLM-Point Count

*TEM Bulk Analysis*
- ☐ TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1
- ☐ Chatfield Protocol (semi-quantitative)

☐ Check Box for Stop Positive

Comments:

Samplers Name: Megan Sawyer | Samplers Signature: Megan Sawyer | Date Sampled: 1/11/16 - 1/22/16

Building Use/Description/Features: | Age: | Size:

Windows: | Siding: | Roof: | Attic: | HVAC:

| Sample # | Material Location | Material Description | Approx. Quantity | Condition | Comments |
|---|---|---|---|---|---|
| T40-102-360 | T40-360 FT | Roofing Material | - | - | - |
| T35-103-46 | T35-46 FT | Tan Sheet Flooring | - | - | - |
| T35-104-40 | T35-40 FT | Pink Checkered Tile | - | - | - |
| T36-105-17 | T36-17 FT | Tan Sheet Flooring | - | - | - |
| T36-106-227 | T36-227 FT | Plaster | - | - | - |
| T47-107-250 | T47-250 FT | Asphalt Shingle | - | - | - |
| T47-108-261 | T47-261 FT | Linoleum | - | - | - |
| T37- 109-107 | T37-107 FT | Gray Tile | - | - | - |
| T37-110-78 | T37-78 FT | Tar | - | - | - |

| | | |
|---|---|---|
| Relinquished: Megan Sawyer | Date: 2/1/2016 | Time: 8:30 am |
| Received: [signature] | Date: 2-5-16 | Time: 950A |

**Project Name/Number** NGA/2015-0461.21

| Sample # | Material Location | Material Description | Approx. Quantity | Condition | Comments |
|---|---|---|---|---|---|
| T45-111-22 | T45-22 FT | White Tile | - | - | - |
| T44-112-42 | T44-42 FT | Roofing Material | - | - | - |
| T44-113-143 | T44-143 FT | Tan Tile | - | - | - |
| T44-114-210 | T44-210 FT | Yellow Sheet Flooring | - | - | - |
| T44-115-210 | T44-210 FT | Blue Tile | - | - | - |
| T43-116-36 | T43-36 FT | Various Colored Tile | - | - | - |
| T43-117-36 | T43-36 FT | Tan Textured Tile | - | - | - |
| T43-118-50 | T43-50 FT | Roofing Material | - | - | - |
| T60-119-46 | T60-46 FT | Roofing Material | - | - | - |
| T50-120-113 | T50-113 FT | Green Sheet Flooring | - | - | - |
| T50-121-113 | T50-113 FT | Tan Tile | - | - | - |
| T50-122-82 | T50-82 FT | Roofing Material | - | - | - |
| T50-123-190 | T50-190 FT | Fireproofing Door | - | - | - |
| T47-124-22 | T47-22 FT | Roofing Material | - | - | - |
| T47-125-22 | T47-22 FT | Wood Vinyl Panel | - | - | - |
| T47-126-79 | T47-79 FT | Roofing Material | - | - | - |
| T47-127-69 | T47-69 FT | Pipe Coating | - | - | - |
| T62-128-11 | T62-11 FT | Tan Sheet Flooring | - | - | - |
| T62-129-56 | T62-56 FT | Dark Blue Tile | - | - | - |
| T62-130-56 | T62-56 FT | Gray Speckled Tile | - | - | - |
| T62-131-262 | T62-262 FT | Yellow Tile | - | - | - |

**Project Name/Number** NGA/2015-0461.21

| Sample # | Material Location | Material Description | Approx. Quantity | Condition | Comments |
|---|---|---|---|---|---|
| T63-132-68 | T63-68 FT | Roofing Material | - | - | - |
| T63-133-25 | T63-25 FT | Pink Sheet Flooring | - | - | - |
| T63-134-107 | T63-107 FT | Drywall | - | - | - |
| T68-135-5 | T68-5 FT | Roofing | - | - | - |
| T68-136-233 | T68-233 FT | Pipe Coating | - | - | - |
| T67-137-32 | T67-32 FT | Plaster | - | - | - |
| T64-138-10 | T64-10 FT | Shingle | - | - | - |
| T66-139-80 | T66-80 FT | Plaster | - | - | - |
| T66-140-254 | T66-254 FT | White Tile | - | - | - |
| T66-141-300 | T66-300 FT | Tan Colored Tile | - | - | - |
| T66-142-365 | T66-365 FT | Roofing | - | - | - |
| T66-143-365 | T66-365 FT | Blue Pattern Sheet Flooring | - | - | - |
| T70-144-65 | T70-65 FT | Roofing | - | - | - |
| T69-145-5 | T69-5 FT | Roofing | - | - | - |
| T69-146-30 | T69-30 FT | Gray and Tan Sheet Flooring | - | - | - |
| T71-147-50 | T71-50 FT | Red Tile | - | - | - |
| T71-148-140 | T71-140 FT | Yellow Tile | - | - | - |
| T71-149-140 | T71-140 FT | Tan Tile | - | - | - |
| T71-150-338 | T71-338 FT | Tan and Brown Tile | - | - | - |
| T71-151-400 | T71-400 FT | Shingle | - | - | - |
| T76-152-60 | T76-60 FT | Roofing Material | - | - | - |

**Project Name/Number** NGA/2015-0461.21

| Sample # | Material Location | Material Description | Approx. Quantity | Condition | Comments |
|---|---|---|---|---|---|
| T76-153-25 | T76-25 FT | White & Yellow Sheet Flooring | - | - | - |
| T75-154-77 | T75-77 FT | Plaster | - | - | - |
| T75-155-77 | T75-77 FT | Roofing Material | - | - | - |
| T75-156-50 | T75-50 FT | Green Sheet Flooring | - | - | - |
| T74-157-7 | T74-7 FT | Roofing Material | - | - | - |
| T74-158-100 | T74-100 FT | Light Blue Sheet Flooring | - | - | - |
| T79-159-30 | T79-30 FT | Gold Tile | - | - | - |
| T50-120-113D | T50-113 FT | Green Sheet Flooring | - | - | - |
| T50-121-113D | T50-113 FT | Tan Tile | - | - | - |
| T50-122-82D | T50-82 FT | Roofing Material | - | - | - |
| T50-123-190D | T50-190 FT | Fireproofing Safe Door, Material | - | - | - |
| T47-124-22D | T47-22 FT | Roofing | - | - | - |
| T47-125-22D | T47-22 FT | Wood Vinyl Panel | - | - | - |
| T47-126-79D | T47-79 FT | Roofing Material | - | - | - |
| T47-127-69D | T47-69 FT | Pipe Coating | - | - | - |
| T62-128-11D | T62-11 FT | Tan Sheet Flooring | - | - | - |
| T62-129-56D | T62-56 FT | Dark Blue Tile | - | - | - |
| T62-130-56D | T62-56 FT | Gray speckled Tile | - | - | - |
| T62-131-262D | T62-262 FT | Yellow Tile | - | - | - |
| T63-132-68D | T63-68 FT | Roofing | - | - | - |
| T63-133-25D | T63-25 FT | Pink Sheet Flooring | - | - | - |

**Project Name/Number** NGA/2015-0461.21

| Sample # | Material Location | Material Description | Approx. Quantity | Condition | Comments |
|---|---|---|---|---|---|
| T63-134-101D | T63-101 FT | Drywall | - | - | - |
| T68-135-5D | T68-5 FT | Roofing | - | - | - |
| T69-146-30D | T69-30 FT | Gray and tan sheet flooring | - | - | - |
| T74-157-7D | T74-7 FT | Roofing Material | - | - | - |
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SCI ENGINEERING, INC.
CONSULTANTS IN DEVELOPMENT,
DESIGN AND CONSTRUCTION
GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

January 11, 2016

Mr. Wes March
Missouri Department of Natural Resources
Hazardous Waste Program
P.O. Box 176
Jefferson City, Missouri 65102-0176

RE: Field Activities Progress Summary
National Geospatial Intelligence Agency (Proposed)
St. Louis, Missouri
SCI No. 2015-0461.21

Dear Mr. March:

SCI Engineering, Inc. (SCI) is pleased to submit this summary report for the National Geospatial Intelligence Agency in St. Louis, Missouri from January 4 through January 8, 2016. Per the approved scope of work dated December 10, 2015, SCI has been providing soil and groundwater sampling activities, trenching, and a ground penetrating radar survey for the subject site. During the above-referenced time period, SCI was onsite for five working days. A detailed summary for each site activity during this period is described herein. The enclosed drawing includes actual and proposed boring locations for the subject site.

**SOIL AND GROUNDWATER SAMPLING**

During the above referenced period, SCI was not on site conducting soil and groundwater sampling. To date, SCI has completed 37 of the proposed 72 borings. Analytical results for these borings have been provided in previous correspondence.

SCI will remobilize to the site on January 11, 2016 to advance the remaining borings on the subject site. During this time, SCI will attempt to collect water from the remaining piezometers. SCI anticipates the completion of this phase of field work by January 15, 2016, with analytical results expected 1 to 2 weeks later.

**TRENCHING ACTIVITIES**

From January 4 through January 8, 2016, SCI completed 13 trenches for the subject site. During this time, approximately 2,500 feet of trenching were completed. To date, SCI has completed 31 of the proposed 76 trenches, for a total of 6,200 of the proposed 13,300 feet of trenching. Material observed in the trenches was visually assessed for asbestos containing materials (ACMs), and samples were collected where appropriate. To date, 100 samples have been collected for suspect ACMs. Based on current projections, SCI expects the total number of ACM samples to be around 200, which will exceed the 150 samples approved in the scope of work. SCI will hold any samples collected beyond 150 for potential future analysis beyond the current scope of work.

Based on the current rate of trenching, SCI anticipates approximately 15 working days are required to complete trenching activities on the subject site. SCI will be onsite daily as conditions permit until trenching activities are completed. SCI projects the completion of this phase of work by January 29, 2016.

**GROUND PENETRATING RADAR (GPR) SURVEY**

During this period, GPR activities were completed on January 7, 2016. The survey identified anomalies in the subsurface up to 8 feet below ground surface (bgs). The results of these activities are summarized below.

| Site Area (nearest intersection) | Results |
|---|---|
| 23rd Street and North Market Street (northeast corner) | No objects identified |
| 22nd Street and North Market Street (northwest corner) | Five objects were identified on this corner. During trenching activities, SCI uncovered four USTs that appeared to be closed in place. |
| 23rd Street and Maiden Street (northwest corner) | One object was identified running east to west across parcel, likely either UST or concrete slab/foundation. |

**SCHEDULE**

During this period, SCI experienced no lost days on site due to weather, equipment, or other delays. SCI maintains the project schedule of a draft report issuance no later than February 12, 2015. SCI will periodically update the project schedule and completion date in subsequent progress reports.

SCI appreciates being of continuing service to you on this project. Please contact us if you have any questions or concerns regarding this report.

Respectfully,

**SCI ENGINEERING, INC.**

Ben K. Butterfield
Staff Scientist

Trey L. Coad
Vice President

NAB/BKB/TLC/EPG/lf

Enclosure

C: Mr. Peter Phillips, City of St. Louis
Mr. Eric Page, Environmental Operations, Inc.

N:\StCharles\shared\1soils\1NEW\PROJECT FILES\2015 PROJECTS\2015-0461 National Geospatial Int. Agency\ES\21\150461.21 Progress Update Report 1-11.docx

GENERAL NOTES/LEGEND

PROJECT NAME
NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
ST. LOUIS, MISSOURI

SAMPLE LOCATION MAP

| | |
|---|---|
| JOB NUMBER | 2015-0461.21 |
| DATE | 01/2016 |
| DRAWN BY | LAP |
| CHECKED BY | BKB |
| FIGURE | 1 |

SCI ENGINEERING, INC.
CONSULTANTS IN DEVELOPMENT,
DESIGN AND CONSTRUCTION
GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

January 19, 2016

Mr. Wes March
Missouri Department of Natural Resources
Hazardous Waste Program
P.O. Box 176
Jefferson City, Missouri 65102-0176

RE: Field Activities Progress Summary
National Geospatial Intelligence Agency (Proposed)
St. Louis, Missouri
SCI No. 2015-0461.21

Dear Mr. March:

SCI Engineering, Inc. (SCI) is pleased to submit this summary report for the National Geospatial Intelligence Agency in St. Louis, Missouri from January 11 through January 15, 2016. Per the approved scope of work dated December 10, 2015, SCI has been providing soil and groundwater sampling activities, trenching, and a ground penetrating radar survey for the subject site. During the above-referenced time period, SCI was onsite for five working days. A detailed summary for each site activity during this period is described herein. The enclosed drawing includes actual and proposed boring locations for the subject site.

**SOIL AND GROUNDWATER SAMPLING**

SCI remobilized to the site on January 11, 2016 to complete the reminder of the Phase Two soil borings and associated soil and groundwater sampling efforts. From January 11 through January 13, 2016, SCI advanced 31 borings on the subject site at locations SCI-40 through SCI-77. Borings SCI-56, SCI-60, and SCI-62 were omitted from the project scope after consultation with the MDNR and in order to meet the requirements of the RFP and associated scope of work. Additionally, SCI did not advance borings SCI-72 through SCI-74 and SCI-76 because access to these four proposed boring locations could not be obtained. A shallow and a deep soil sample were collected from each boring along with associated duplicates for a total of 67 soil samples. These samples were submitted to the laboratory under appropriate chain-of-custody procedures. At the time of this report, SCI has received a portion of the analytical data and will forwarding to the project team. The remainder of the laboratory reports will be provided to the project team when available.

From the 31 boring locations advanced between January 11 and 13, twelve piezometers were installed per the approved scope of work. SCI will attempt to collect water from the remaining piezometers the week of January 18th. When available, SCI will provide the analytical data from the groundwater samples

SCI anticipates the completion of this phase of field work by January 22, 2016, with analytical results expected 1 to 2 weeks later.

**TRENCHING ACTIVITIES**

From January 11 through January 15, 2016, SCI completed 16 trenches. During this time, approximately 3,700 feet of trenching was completed. To date, SCI has completed 47 of the proposed 76 trenches, for a total of 9,900 of the proposed 13,300 feet of trenching. Material observed in the trenches was visually assessed for the presence of suspect asbestos containing materials (ACMs), and samples were collected when identified. To date, 148 samples/layers have been collected for suspect ACMs. Based on amount of trenching to be completed SCI expects the total number of suspect ACM samples/layers to exceed 150, the quantity of samples included in the request for proposal and associated scope of work. SCI is in the process of preparing an addendum to the scope of work which will allow for the collection and analysis of suspect ACMs, in the likely instance that these materials are identified during the remaining trenching activities. SCI will hold the additional samples until formal authorization from the MDNR is received.

SCI projects the completion of this phase of work by January 29, 2016, weather permitting.

**GROUND PENETRATING RADAR (GPR) SURVEY**

All GPR activities required in the approved scope of work were completed on January 7, 2016 and summarized in SCI's Progress Update Report dated January 11, 2016. No further GPR activities are anticipated.

**SCHEDULE**

For the week of January 11, SCI experienced no lost days due to weather. SCI maintains the project schedule of a draft report issuance no later than February 12, 2015. SCI will periodically update the project schedule and completion date in subsequent progress reports.

SCI appreciates being of continuing service to you on this project. Please contact us if you have any questions or concerns regarding this report.

Respectfully,

**SCI ENGINEERING, INC.**

Ben K. Butterfield
Staff Scientist

Trey L. Coad
Vice President

NAB/BKB/TLC/EPG/lf

Enclosure

C: Mr. Peter Phillips, City of St. Louis
Mr. Eric Page, Environmental Operations, Inc.

GENERAL NOTES/LEGEND

PROJECT NAME

NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
ST. LOUIS, MISSOURI

SAMPLE LOCATION MAP

| | |
|---|---|
| JOB NUMBER | 2015-0461.21 |
| DATE | 01/2016 |
| DRAWN BY | LAP |
| CHECKED BY | BKB |
| FIGURE | 1 |

January 15, 2016

Ben Butterfield
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301
TEL: (618) 206-3028
FAX: (636) 949-8269

**RE:** NGA 2015-0461.21 **WorkOrder:** 16010531

Dear Ben Butterfield:

TEKLAB, INC received 17 samples on 1/11/2016 4:30:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

# Report Contents



**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010531
**Report Date:** 15-Jan-16

**This reporting package includes the following:**


| | |
|---|---|
| Cover Letter | 1 |
| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 4 |
| Laboratory Results | 5 |
| Quality Control Results | 56 |
| Receiving Check List | 98 |
| Chain of Custody | Appended |

# Definitions

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## Abbr Definition

| | |
|---|---|
| CCV | Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration. |
| DF | Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors. |
| DNI | Did not ignite |
| DUP | Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. |
| ICV | Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated. |
| IDPH | IL Dept. of Public Health |
| LCS | Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request). |
| LCSD | Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MBLK | Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses. |
| MDL | Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. |
| MS | Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MSD | Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MW | Molecular weight |
| ND | Not Detected at the Reporting Limit |
| NELAP | NELAP Accredited |
| PQL | Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request). |
| RL | The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL. |
| RPD | Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request). |
| SPK | The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. |
| Surr | Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. |
| TIC | Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET" |
| TNTC | Too numerous to count ( > 200 CFU ) |

## Qualifiers

| | | | |
|---|---|---|---|
| # - | Unknown hydrocarbon | B - | Analyte detected in associated Method Blank |
| E - | Value above quantitation range | H - | Holding times exceeded |
| I - | Associated internal standard was outside method criteria | J - | Analyte detected below quantitation limits |
| M - | Manual Integration used to determine area response | ND - | Not Detected at the Reporting Limit |
| R - | RPD outside accepted recovery limits | S - | Spike Recovery outside recovery limits |
| T - | TIC(Tentatively identified compound) | X - | Value exceeds Maximum Contaminant Level |

# Case Narrative

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16010531

**Report Date:** 15-Jan-16

**Cooler Receipt Temp:** 6.82 °C

## Locations and Accreditations

| | Collinsville | Springfield | Kansas City | Collinsville Air |
|---|---|---|---|---|
| Address | 5445 Horseshoe Lake Road | 3920 Pintail Dr | 8421 Nieman Road | 5445 Horseshoe Lake Road |
| | Collinsville, IL 62234-7425 | Springfield, IL 62711-9415 | Lenexa, KS 66214 | Collinsville, IL 62234-7425 |
| Phone | (618) 344-1004 | (217) 698-1004 | (913) 541-1998 | (618) 344-1004 |
| Fax | (618) 344-1005 | (217) 698-1005 | (913) 541-1998 | (618) 344-1005 |
| Email | jhriley@teklabinc.com | KKlostermann@teklabinc.com | dthompson@teklabinc.com | EHurley@teklabinc.com |

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|---|---|---|---|---|---|
| Illinois | IEPA | 100226 | NELAP | 1/31/2017 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 1/31/2016 | Collinsville |
| Louisiana | LDEQ | 166493 | NELAP | 6/30/2016 | Collinsville |
| Louisiana | LDEQ | 166578 | NELAP | 6/30/2016 | Collinsville |
| Texas | TCEQ | T104704515-12-1 | NELAP | 7/31/2016 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2016 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2017 | Collinsville |
| Kentucky | KDEP | 98006 | | 12/31/2016 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2016 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2017 | Collinsville |
| Oklahoma | ODEQ | 9978 | | 8/31/2016 | Collinsville |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010531
**Client Project:** NGA 2015-0461.21
**Report Date:** 15-Jan-16
**Lab ID:** 16010531-001
**Client Sample ID:** SCI-40A
**Matrix:** SOLID
**Collection Date:** 01/11/2016 11:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.3** | % | 1 | 01/13/2016 18:00 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **6.50** | mg/Kg-dry | 1 | 01/13/2016 9:30 | 115555 |
| Barium | NELAP | 0.23 | | **246** | mg/Kg-dry | 1 | 01/13/2016 9:30 | 115555 |
| Cadmium | NELAP | 0.18 | J | **0.14** | mg/Kg-dry | 1 | 01/13/2016 9:30 | 115555 |
| Chromium | NELAP | 0.45 | | **13.6** | mg/Kg-dry | 1 | 01/13/2016 9:30 | 115555 |
| Lead | NELAP | 1.36 | | **16.3** | mg/Kg-dry | 1 | 01/13/2016 9:30 | 115555 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 01/13/2016 9:30 | 115555 |
| Silver | NELAP | 0.45 | | **< 0.45** | mg/Kg-dry | 1 | 01/13/2016 9:30 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.015** | mg/Kg-dry | 1 | 01/12/2016 9:13 | 115538 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:03 | 115540 |
| Aroclor 1221 | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:03 | 115540 |
| Aroclor 1232 | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:03 | 115540 |
| Aroclor 1242 | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:03 | 115540 |
| Aroclor 1248 | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:03 | 115540 |
| Aroclor 1254 | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:03 | 115540 |
| Aroclor 1260 | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:03 | 115540 |
| Surr: Decachlorobiphenyl | | 5-156 | | **72.7** | %REC | 1 | 01/13/2016 15:03 | 115540 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **68.4** | %REC | 1 | 01/13/2016 15:03 | 115540 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Anthracene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Chrysene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Fluoranthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Fluorene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Pyrene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| TPH-DRO (C10 - C21) | | 14.9 | J | **8.8** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| TPH-ORO (C21 - C35) | | 14.9 | J | **15** | mg/Kg-dry | 1 | 01/12/2016 17:32 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **59.6** | %REC | 1 | 01/12/2016 17:32 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **58.3** | %REC | 1 | 01/12/2016 17:32 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **77.8** | %REC | 1 | 01/12/2016 17:32 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,1-Dichloro-2-propanone | | 48.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-001 **Client Sample ID:** SCI-40A

**Matrix:** SOLID **Collection Date:** 01/11/2016 11:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2-Dichloroethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,2-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 1-Chlorobutane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 2-Butanone | NELAP | 48.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 2-Chlorotoluene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 2-Hexanone | NELAP | 48.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 2-Nitropropane | NELAP | 48.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 4-Chlorotoluene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 48.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Acetone | NELAP | 48.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Acetonitrile | NELAP | 96.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Acrolein | NELAP | 96.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Acrylonitrile | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Allyl chloride | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Bromobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Bromochloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Bromodichloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Bromoform | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Bromomethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Carbon disulfide | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Carbon tetrachloride | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Chlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Chloroethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Chloroform | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Chloromethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Cyclohexanone | | 96.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Dibromochloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Dibromomethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Dichlorodifluoromethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Diisopropyl ether | | 4.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-001 **Client Sample ID:** SCI-40A

**Matrix:** SOLID **Collection Date:** 01/11/2016 11:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Ethyl methacrylate | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Ethylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Ethyl-tert-butyl ether | | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Hexachlorobutadiene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Hexachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Iodomethane | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Isopropylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| m,p-Xylenes | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Methacrylonitrile | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Methyl Methacrylate | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Methylacrylate | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Methylene chloride | NELAP | 4.8 | J | **1.4** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Naphthalene | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| n-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| n-Heptane | | 19.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| n-Hexane | | 19.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Nitrobenzene | NELAP | 96.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| n-Propylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| o-Xylene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Pentachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| p-Isopropyltoluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Propionitrile | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| sec-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Styrene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| tert-Amyl methyl ether | | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| tert-Butyl alcohol | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| tert-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Tetrachloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Tetrahydrofuran | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Toluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| TPH - GRO (C6 - C10) | | 483 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Trichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Trichlorofluoromethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Vinyl acetate | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Xylenes, Total | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:29 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **98.0** | %REC | 1 | 01/12/2016 12:29 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **104.8** | %REC | 1 | 01/12/2016 12:29 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **101.1** | %REC | 1 | 01/12/2016 12:29 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-002 **Client Sample ID:** SCI-40B

**Matrix:** SOLID **Collection Date:** 01/11/2016 11:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.9** | % | 1 | 01/13/2016 18:00 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **6.78** | mg/Kg-dry | 1 | 01/13/2016 9:34 | 115555 |
| Barium | NELAP | 0.24 | | **132** | mg/Kg-dry | 1 | 01/13/2016 9:34 | 115555 |
| Cadmium | NELAP | 0.19 | | **0.30** | mg/Kg-dry | 1 | 01/13/2016 9:34 | 115555 |
| Chromium | NELAP | 0.47 | | **22.0** | mg/Kg-dry | 1 | 01/13/2016 9:34 | 115555 |
| Lead | NELAP | 1.42 | | **8.69** | mg/Kg-dry | 1 | 01/13/2016 9:34 | 115555 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/13/2016 9:34 | 115555 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/13/2016 9:34 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.024** | mg/Kg-dry | 1 | 01/12/2016 9:15 | 115538 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:20 | 115540 |
| Aroclor 1221 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:20 | 115540 |
| Aroclor 1232 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:20 | 115540 |
| Aroclor 1242 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:20 | 115540 |
| Aroclor 1248 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:20 | 115540 |
| Aroclor 1254 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:20 | 115540 |
| Aroclor 1260 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:20 | 115540 |
| Surr: Decachlorobiphenyl | | 5-156 | | **89.5** | %REC | 1 | 01/13/2016 15:20 | 115540 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **76.8** | %REC | 1 | 01/13/2016 15:20 | 115540 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Chrysene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Fluorene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Pyrene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| TPH-DRO (C10 - C21) | | 15.2 | J | **8.4** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| TPH-ORO (C21 - C35) | | 15.2 | J | **8.6** | mg/Kg-dry | 1 | 01/12/2016 18:02 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **65.8** | %REC | 1 | 01/12/2016 18:02 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **68.9** | %REC | 1 | 01/12/2016 18:02 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **83.0** | %REC | 1 | 01/12/2016 18:02 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,1-Dichloro-2-propanone | | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-002 **Client Sample ID:** SCI-40B

**Matrix:** SOLID **Collection Date:** 01/11/2016 11:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2-Dichloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 2-Butanone | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 2-Hexanone | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 2-Nitropropane | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Acetone | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Acetonitrile | NELAP | 92.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Acrolein | NELAP | 92.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Acrylonitrile | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Bromomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Chloroethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Chloromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Cyclohexanone | | 92.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Dichlorodifluoromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-002 **Client Sample ID:** SCI-40B

**Matrix:** SOLID **Collection Date:** 01/11/2016 11:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Ethyl methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Ethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Ethyl-tert-butyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Hexachlorobutadiene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Hexachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Iodomethane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Isopropylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| m,p-Xylenes | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Methacrylonitrile | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Methylacrylate | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Methylene chloride | NELAP | 4.6 | J | **1.3** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Naphthalene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| n-Heptane | | 18.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| n-Hexane | | 18.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Nitrobenzene | NELAP | 92.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Propionitrile | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| tert-Butyl alcohol | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Tetrahydrofuran | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| TPH - GRO (C6 - C10) | | 463 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Vinyl acetate | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Xylenes, Total | NELAP | 4.6 | J | **1.3** | µg/Kg-dry | 1 | 01/12/2016 12:56 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **93.7** | %REC | 1 | 01/12/2016 12:56 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **106.4** | %REC | 1 | 01/12/2016 12:56 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **102.4** | %REC | 1 | 01/12/2016 12:56 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010531
**Client Project:** NGA 2015-0461.21
**Report Date:** 15-Jan-16
**Lab ID:** 16010531-003
**Client Sample ID:** SCI-40D
**Matrix:** SOLID
**Collection Date:** 01/11/2016 11:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.8** | % | 1 | 01/13/2016 18:01 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **6.48** | mg/Kg-dry | 1 | 01/13/2016 9:37 | 115555 |
| Barium | NELAP | 0.23 | | **185** | mg/Kg-dry | 1 | 01/13/2016 9:37 | 115555 |
| Cadmium | NELAP | 0.19 | | **0.28** | mg/Kg-dry | 1 | 01/13/2016 9:37 | 115555 |
| Chromium | NELAP | 0.46 | | **19.8** | mg/Kg-dry | 1 | 01/13/2016 9:37 | 115555 |
| Lead | NELAP | 1.39 | | **8.81** | mg/Kg-dry | 1 | 01/13/2016 9:37 | 115555 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 01/13/2016 9:37 | 115555 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/13/2016 9:37 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.029** | mg/Kg-dry | 1 | 01/12/2016 9:18 | 115538 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:37 | 115540 |
| Aroclor 1221 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:37 | 115540 |
| Aroclor 1232 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:37 | 115540 |
| Aroclor 1242 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:37 | 115540 |
| Aroclor 1248 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:37 | 115540 |
| Aroclor 1254 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:37 | 115540 |
| Aroclor 1260 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:37 | 115540 |
| Surr: Decachlorobiphenyl | | 5-156 | | **89.2** | %REC | 1 | 01/13/2016 15:37 | 115540 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **76.2** | %REC | 1 | 01/13/2016 15:37 | 115540 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Chrysene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Fluorene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Pyrene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| TPH-DRO (C10 - C21) | | 15.0 | J | **8.4** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| TPH-ORO (C21 - C35) | | 15.0 | J | **7.6** | mg/Kg-dry | 1 | 01/12/2016 18:31 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **64.3** | %REC | 1 | 01/12/2016 18:31 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.9** | %REC | 1 | 01/12/2016 18:31 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **78.6** | %REC | 1 | 01/12/2016 18:31 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,1-Dichloro-2-propanone | | 46.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-003 **Client Sample ID:** SCI-40D

**Matrix:** SOLID **Collection Date:** 01/11/2016 11:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2-Dichloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 2-Butanone | NELAP | 46.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 2-Hexanone | NELAP | 46.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 2-Nitropropane | NELAP | 46.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 46.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Acetone | NELAP | 46.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Acetonitrile | NELAP | 93.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Acrolein | NELAP | 93.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Acrylonitrile | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Bromomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Chloroethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Chloromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Cyclohexanone | | 93.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Dichlorodifluoromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-003 **Client Sample ID:** SCI-40D

**Matrix:** SOLID **Collection Date:** 01/11/2016 11:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Ethyl methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Ethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Ethyl-tert-butyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Hexachlorobutadiene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Hexachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Iodomethane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Isopropylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| m,p-Xylenes | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Methacrylonitrile | NELAP | 46.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Methylacrylate | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Methylene chloride | NELAP | 4.7 | J | **1.4** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Naphthalene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| n-Heptane | | 18.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| n-Hexane | | 18.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Nitrobenzene | NELAP | 93.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Propionitrile | NELAP | 46.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| tert-Butyl alcohol | NELAP | 46.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Tetrahydrofuran | NELAP | 46.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| TPH - GRO (C6 - C10) | | 466 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Vinyl acetate | NELAP | 46.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Xylenes, Total | NELAP | 4.7 | J | **1.4** | µg/Kg-dry | 1 | 01/12/2016 13:23 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **94.0** | %REC | 1 | 01/12/2016 13:23 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **105.4** | %REC | 1 | 01/12/2016 13:23 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **103.1** | %REC | 1 | 01/12/2016 13:23 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-004 **Client Sample ID:** SCI-41A

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.5** | % | 1 | 01/13/2016 18:01 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **13.1** | mg/Kg-dry | 1 | 01/13/2016 9:41 | 115555 |
| Barium | NELAP | 0.24 | | **233** | mg/Kg-dry | 1 | 01/13/2016 9:41 | 115555 |
| Cadmium | NELAP | 0.19 | | **9.48** | mg/Kg-dry | 1 | 01/13/2016 9:41 | 115555 |
| Chromium | NELAP | 0.47 | | **31.5** | mg/Kg-dry | 1 | 01/13/2016 9:41 | 115555 |
| Lead | NELAP | 1.42 | | **784** | mg/Kg-dry | 1 | 01/13/2016 9:41 | 115555 |
| Selenium | NELAP | 3.77 | | **4.30** | mg/Kg-dry | 1 | 01/13/2016 9:41 | 115555 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/13/2016 9:41 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.307** | mg/Kg-dry | 1 | 01/12/2016 9:20 | 115538 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:01 | 115540 |
| Aroclor 1221 | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:01 | 115540 |
| Aroclor 1232 | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:01 | 115540 |
| Aroclor 1242 | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:01 | 115540 |
| Aroclor 1248 | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:01 | 115540 |
| Aroclor 1254 | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:01 | 115540 |
| Aroclor 1260 | NELAP | 45.4 | | **67.4** | µg/Kg-dry | 1 | 01/14/2016 17:01 | 115540 |
| Surr: Decachlorobiphenyl | | 5-156 | | **105.0** | %REC | 1 | 01/14/2016 17:01 | 115540 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **68.2** | %REC | 1 | 01/14/2016 17:01 | 115540 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0812 | | **0.505** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Anthracene | NELAP | 0.0812 | | **0.915** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0812 | | **2.06** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0812 | | **1.87** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0812 | | **2.56** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0812 | | **1.00** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Chrysene | NELAP | 0.0812 | | **2.01** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0812 | | **0.183** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Fluoranthene | NELAP | 0.0812 | | **4.28** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Fluorene | NELAP | 0.0812 | | **0.427** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Pyrene | NELAP | 0.0812 | | **3.65** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| TPH-DRO (C10 - C21) | | 28.7 | | **36.1** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| TPH-ORO (C21 - C35) | | 28.7 | | **133** | mg/Kg-dry | 2 | 01/12/2016 22:27 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **60.9** | %REC | 2 | 01/12/2016 22:27 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **61.2** | %REC | 2 | 01/12/2016 22:27 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **75.2** | %REC | 2 | 01/12/2016 22:27 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,1-Dichloro-2-propanone | | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,1-Dichloroethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,1-Dichloroethene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-004 **Client Sample ID:** SCI-41A

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2,3-Trimethylbenzene | | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 133 | J | **43** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2-Dibromoethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2-Dichloroethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,2-Dichloropropane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,3-Dichloropropane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 1-Chlorobutane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 2,2-Dichloropropane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 2-Butanone | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 2-Chlorotoluene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 2-Hexanone | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 2-Nitropropane | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 4-Chlorotoluene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Acetone | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Acetonitrile | NELAP | 2670 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Acrolein | NELAP | 2670 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Acrylonitrile | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Allyl chloride | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Benzene | NELAP | 26.7 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Bromobenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Bromochloromethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Bromodichloromethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Bromoform | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Bromomethane | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Carbon disulfide | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Carbon tetrachloride | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Chlorobenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Chloroethane | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Chloroform | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Chloromethane | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 107 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Cyclohexanone | | 2670 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Dibromochloromethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Dibromomethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Dichlorodifluoromethane | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Diisopropyl ether | | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-004 **Client Sample ID:** SCI-41A

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Ethyl methacrylate | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Ethylbenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Ethyl-tert-butyl ether | | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Hexachlorobutadiene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Hexachloroethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Iodomethane | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Isopropylbenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| m,p-Xylenes | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Methacrylonitrile | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Methyl Methacrylate | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Methyl tert-butyl ether | NELAP | 53.3 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Methylacrylate | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Methylene chloride | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Naphthalene | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| n-Butylbenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| n-Heptane | | 533 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| n-Hexane | | 533 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Nitrobenzene | NELAP | 2670 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| n-Propylbenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| o-Xylene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Pentachloroethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| p-Isopropyltoluene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Propionitrile | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| sec-Butylbenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Styrene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| tert-Amyl methyl ether | | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| tert-Butyl alcohol | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| tert-Butylbenzene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Tetrachloroethene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Tetrahydrofuran | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Toluene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| TPH - GRO (C6 - C10) | | 13300 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 107 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 267 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Trichloroethene | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Trichlorofluoromethane | NELAP | 133 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Vinyl acetate | NELAP | 1330 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Vinyl chloride | NELAP | 53.3 | | **ND** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Xylenes, Total | NELAP | 133 | J | **38** | µg/Kg-dry | 12.5 | 01/13/2016 12:01 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.8** | %REC | 12.5 | 01/13/2016 12:01 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **95.9** | %REC | 12.5 | 01/13/2016 12:01 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **97.4** | %REC | 12.5 | 01/13/2016 12:01 | 115581 |

*Elevated reporting limit due to matrix interference.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-005 **Client Sample ID:** SCI-41B

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.5** | % | 1 | 01/13/2016 18:02 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **5.83** | mg/Kg-dry | 1 | 01/13/2016 9:45 | 115555 |
| Barium | NELAP | 0.25 | | **103** | mg/Kg-dry | 1 | 01/13/2016 9:45 | 115555 |
| Cadmium | NELAP | 0.20 | | **0.21** | mg/Kg-dry | 1 | 01/13/2016 9:45 | 115555 |
| Chromium | NELAP | 0.50 | | **22.2** | mg/Kg-dry | 1 | 01/13/2016 9:45 | 115555 |
| Lead | NELAP | 1.50 | | **10.2** | mg/Kg-dry | 1 | 01/13/2016 9:45 | 115555 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/13/2016 9:45 | 115555 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/13/2016 9:45 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.027** | mg/Kg-dry | 1 | 01/12/2016 9:22 | 115538 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 47.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:11 | 115540 |
| Aroclor 1221 | NELAP | 47.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:11 | 115540 |
| Aroclor 1232 | NELAP | 47.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:11 | 115540 |
| Aroclor 1242 | NELAP | 47.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:11 | 115540 |
| Aroclor 1248 | NELAP | 47.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:11 | 115540 |
| Aroclor 1254 | NELAP | 47.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:11 | 115540 |
| Aroclor 1260 | NELAP | 47.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:11 | 115540 |
| Surr: Decachlorobiphenyl | | 5-156 | | **89.2** | %REC | 1 | 01/13/2016 16:11 | 115540 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **78.6** | %REC | 1 | 01/13/2016 16:11 | 115540 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Anthracene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Chrysene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Fluoranthene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Fluorene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Pyrene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| TPH-DRO (C10 - C21) | | 15.2 | J | **8.2** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| TPH-ORO (C21 - C35) | | 15.2 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:01 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **60.3** | %REC | 1 | 01/12/2016 19:01 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **62.4** | %REC | 1 | 01/12/2016 19:01 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **80.2** | %REC | 1 | 01/12/2016 19:01 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,1-Dichloro-2-propanone | | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-005 **Client Sample ID:** SCI-41B

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2-Dichloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 2-Butanone | NELAP | 47.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 2-Hexanone | NELAP | 47.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 2-Nitropropane | NELAP | 47.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 47.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Acetone | NELAP | 47.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Acetonitrile | NELAP | 94.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Acrolein | NELAP | 94.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Acrylonitrile | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Bromomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Chloroethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Chloromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Cyclohexanone | | 94.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Dichlorodifluoromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-005 **Client Sample ID:** SCI-41B

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Ethyl methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Ethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Ethyl-tert-butyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Hexachlorobutadiene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Hexachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Iodomethane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Isopropylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| m,p-Xylenes | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Methacrylonitrile | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Methylacrylate | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Methylene chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Naphthalene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| n-Heptane | | 18.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| n-Hexane | | 18.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Nitrobenzene | NELAP | 94.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Propionitrile | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| tert-Butyl alcohol | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Tetrahydrofuran | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| TPH - GRO (C6 - C10) | | 472 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Vinyl acetate | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:17 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.4** | %REC | 1 | 01/12/2016 14:17 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.5** | %REC | 1 | 01/12/2016 14:17 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **99.1** | %REC | 1 | 01/12/2016 14:17 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-006 **Client Sample ID:** SCI-42A

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.9** | % | 1 | 01/13/2016 18:02 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **10.5** | mg/Kg-dry | 1 | 01/13/2016 10:09 | 115555 |
| Barium | NELAP | 0.24 | | **156** | mg/Kg-dry | 1 | 01/13/2016 10:09 | 115555 |
| Cadmium | NELAP | 0.19 | J | **0.16** | mg/Kg-dry | 1 | 01/13/2016 10:09 | 115555 |
| Chromium | NELAP | 0.48 | | **20.0** | mg/Kg-dry | 1 | 01/13/2016 10:09 | 115555 |
| Lead | NELAP | 1.44 | | **14.7** | mg/Kg-dry | 1 | 01/13/2016 10:09 | 115555 |
| Selenium | NELAP | 3.85 | J | **3.6** | mg/Kg-dry | 1 | 01/13/2016 10:09 | 115555 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/13/2016 10:09 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.017** | mg/Kg-dry | 1 | 01/12/2016 9:29 | 115538 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:28 | 115540 |
| Aroclor 1221 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:28 | 115540 |
| Aroclor 1232 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:28 | 115540 |
| Aroclor 1242 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:28 | 115540 |
| Aroclor 1248 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:28 | 115540 |
| Aroclor 1254 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:28 | 115540 |
| Aroclor 1260 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:28 | 115540 |
| Surr: Decachlorobiphenyl | | 5-156 | | **84.2** | %REC | 1 | 01/13/2016 16:28 | 115540 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **64.5** | %REC | 1 | 01/13/2016 16:28 | 115540 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Chrysene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Fluorene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Pyrene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| TPH-DRO (C10 - C21) | | 14.8 | J | **7.8** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| TPH-ORO (C21 - C35) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 19:30 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **59.6** | %REC | 1 | 01/12/2016 19:30 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **61.3** | %REC | 1 | 01/12/2016 19:30 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **77.5** | %REC | 1 | 01/12/2016 19:30 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,1-Dichloro-2-propanone | | 44.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-006 **Client Sample ID:** SCI-42A

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2-Dichloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 2-Butanone | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 2-Hexanone | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 2-Nitropropane | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Acetone | NELAP | 44.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Acetonitrile | NELAP | 88.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Acrolein | NELAP | 88.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Acrylonitrile | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Bromomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Chloroethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Chloromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Cyclohexanone | | 88.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Dichlorodifluoromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-006 **Client Sample ID:** SCI-42A

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Ethyl methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Ethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Ethyl-tert-butyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Hexachlorobutadiene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Hexachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Iodomethane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Isopropylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| m,p-Xylenes | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Methacrylonitrile | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Methylacrylate | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Naphthalene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| n-Heptane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| n-Hexane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Nitrobenzene | NELAP | 88.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Propionitrile | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| tert-Butyl alcohol | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Tetrahydrofuran | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| TPH - GRO (C6 - C10) | | 444 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Vinyl acetate | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 14:44 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.3** | %REC | 1 | 01/12/2016 14:44 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.7** | %REC | 1 | 01/12/2016 14:44 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **99.0** | %REC | 1 | 01/12/2016 14:44 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-007 **Client Sample ID:** SCI-42B

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.4** | % | 1 | 01/13/2016 18:02 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **5.70** | mg/Kg-dry | 1 | 01/13/2016 10:12 | 115555 |
| Barium | NELAP | 0.24 | | **110** | mg/Kg-dry | 1 | 01/13/2016 10:12 | 115555 |
| Cadmium | NELAP | 0.19 | | **0.20** | mg/Kg-dry | 1 | 01/13/2016 10:12 | 115555 |
| Chromium | NELAP | 0.48 | | **22.1** | mg/Kg-dry | 1 | 01/13/2016 10:12 | 115555 |
| Lead | NELAP | 1.44 | | **9.50** | mg/Kg-dry | 1 | 01/13/2016 10:12 | 115555 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/13/2016 10:12 | 115555 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/13/2016 10:12 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.030** | mg/Kg-dry | 1 | 01/12/2016 9:31 | 115538 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:20 | 115540 |
| Aroclor 1221 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:20 | 115540 |
| Aroclor 1232 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:20 | 115540 |
| Aroclor 1242 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:20 | 115540 |
| Aroclor 1248 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:20 | 115540 |
| Aroclor 1254 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:20 | 115540 |
| Aroclor 1260 | NELAP | 47.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:20 | 115540 |
| Surr: Decachlorobiphenyl | | 5-156 | | **90.4** | %REC | 1 | 01/13/2016 17:20 | 115540 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **73.3** | %REC | 1 | 01/13/2016 17:20 | 115540 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Anthracene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Chrysene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Fluoranthene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Fluorene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Pyrene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| TPH-DRO (C10 - C21) | | 15.2 | J | **7.8** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| TPH-ORO (C21 - C35) | | 15.2 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:00 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **55.0** | %REC | 1 | 01/12/2016 20:00 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **55.9** | %REC | 1 | 01/12/2016 20:00 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **76.2** | %REC | 1 | 01/12/2016 20:00 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,1-Dichloro-2-propanone | | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-007 **Client Sample ID:** SCI-42B

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2-Dichloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 2-Butanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 2-Hexanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 2-Nitropropane | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Acetone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Acetonitrile | NELAP | 91.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Acrolein | NELAP | 91.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Cyclohexanone | | 91.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-007 **Client Sample ID:** SCI-42B

**Matrix:** SOLID **Collection Date:** 01/11/2016 12:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Ethyl methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Ethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Ethyl-tert-butyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Hexachlorobutadiene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Hexachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Iodomethane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Isopropylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| m,p-Xylenes | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Methacrylonitrile | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Methylene chloride | NELAP | 4.6 | J | **1.0** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| n-Heptane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| n-Hexane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Nitrobenzene | NELAP | 91.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Propionitrile | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| tert-Butyl alcohol | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Tetrahydrofuran | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| TPH - GRO (C6 - C10) | | 457 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Vinyl acetate | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Xylenes, Total | NELAP | 4.6 | J | **1.3** | µg/Kg-dry | 1 | 01/12/2016 15:11 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **98.6** | %REC | 1 | 01/12/2016 15:11 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.9** | %REC | 1 | 01/12/2016 15:11 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **101.2** | %REC | 1 | 01/12/2016 15:11 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-008 **Client Sample ID:** SCI-43A

**Matrix:** SOLID **Collection Date:** 01/11/2016 13:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.9** | % | 1 | 01/13/2016 18:03 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **12.1** | mg/Kg-dry | 1 | 01/13/2016 10:16 | 115555 |
| Barium | NELAP | 0.23 | | **298** | mg/Kg-dry | 1 | 01/13/2016 10:16 | 115555 |
| Cadmium | NELAP | 0.19 | | **1.11** | mg/Kg-dry | 1 | 01/13/2016 10:16 | 115555 |
| Chromium | NELAP | 0.46 | | **21.2** | mg/Kg-dry | 1 | 01/13/2016 10:16 | 115555 |
| Lead | NELAP | 1.39 | | **973** | mg/Kg-dry | 1 | 01/13/2016 10:16 | 115555 |
| Selenium | NELAP | 3.70 | J | **2.5** | mg/Kg-dry | 1 | 01/13/2016 10:16 | 115555 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/13/2016 10:16 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.058 | | **0.958** | mg/Kg-dry | 5 | 01/12/2016 10:54 | 115538 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0811 | | **0.224** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Anthracene | NELAP | 0.0811 | | **0.505** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0811 | | **1.78** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0811 | | **1.74** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0811 | | **2.53** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0811 | | **0.729** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Chrysene | NELAP | 0.0811 | | **1.71** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0811 | | **0.173** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Fluoranthene | NELAP | 0.0811 | | **4.03** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Fluorene | NELAP | 0.0811 | | **0.175** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Pyrene | NELAP | 0.0811 | | **3.57** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| TPH-DRO (C10 - C21) | | 28.6 | J | **25** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| TPH-ORO (C21 - C35) | | 28.6 | | **67.1** | mg/Kg-dry | 2 | 01/12/2016 22:56 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **68.8** | %REC | 2 | 01/12/2016 22:56 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **69.7** | %REC | 2 | 01/12/2016 22:56 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.9** | %REC | 2 | 01/12/2016 22:56 | 115545 |
| *Elevated reporting limit due to sample extract composition.* | | | | | | | | |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,1-Dichloro-2-propanone | | 43.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-008 **Client Sample ID:** SCI-43A

**Matrix:** SOLID **Collection Date:** 01/11/2016 13:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 2-Butanone | NELAP | 43.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 2-Hexanone | NELAP | 43.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 2-Nitropropane | NELAP | 43.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 43.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Acetone | NELAP | 43.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Acetonitrile | NELAP | 87.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Acrolein | NELAP | 87.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Acrylonitrile | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Bromomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Chloroethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Chloromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Cyclohexanone | | 87.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Dichlorodifluoromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Iodomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-008 **Client Sample ID:** SCI-43A

**Matrix:** SOLID **Collection Date:** 01/11/2016 13:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 43.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Methylacrylate | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Naphthalene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| n-Heptane | | 17.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| n-Hexane | | 17.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Nitrobenzene | NELAP | 87.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Propionitrile | NELAP | 43.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| tert-Butyl alcohol | NELAP | 43.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Tetrahydrofuran | NELAP | 43.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| TPH - GRO (C6 - C10) | | 438 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Vinyl acetate | NELAP | 43.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:27 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **102.4** | %REC | 1 | 01/13/2016 12:27 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **110.2** | %REC | 1 | 01/13/2016 12:27 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **101.9** | %REC | 1 | 01/13/2016 12:27 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-009 **Client Sample ID:** SCI-43B

**Matrix:** SOLID **Collection Date:** 01/11/2016 13:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.6** | % | 1 | 01/13/2016 18:03 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **7.20** | mg/Kg-dry | 1 | 01/13/2016 10:20 | 115555 |
| Barium | NELAP | 0.25 | | **148** | mg/Kg-dry | 1 | 01/13/2016 10:20 | 115555 |
| Cadmium | NELAP | 0.20 | | **0.29** | mg/Kg-dry | 1 | 01/13/2016 10:20 | 115555 |
| Chromium | NELAP | 0.50 | | **18.5** | mg/Kg-dry | 1 | 01/13/2016 10:20 | 115555 |
| Lead | NELAP | 1.50 | | **28.3** | mg/Kg-dry | 1 | 01/13/2016 10:20 | 115555 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/13/2016 10:20 | 115555 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/13/2016 10:20 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.128** | mg/Kg-dry | 1 | 01/12/2016 9:40 | 115538 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0845 | J | **0.080** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Anthracene | NELAP | 0.0845 | | **0.345** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0845 | | **1.99** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0845 | | **1.32** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0845 | | **1.92** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0845 | | **0.636** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Chrysene | NELAP | 0.0845 | | **1.73** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0845 | | **0.173** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Fluoranthene | NELAP | 0.0845 | | **4.14** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Fluorene | NELAP | 0.0845 | J | **0.054** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Pyrene | NELAP | 0.0845 | | **3.52** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| TPH-DRO (C10 - C21) | | 29.8 | J | **22** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| TPH-ORO (C21 - C35) | | 29.8 | | **61.5** | mg/Kg-dry | 2 | 01/13/2016 11:29 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **57.1** | %REC | 2 | 01/13/2016 11:29 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **59.5** | %REC | 2 | 01/13/2016 11:29 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **78.2** | %REC | 2 | 01/13/2016 11:29 | 115545 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,1-Dichloro-2-propanone | | 48.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,1-Dichloropropene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-009 **Client Sample ID:** SCI-43B

**Matrix:** SOLID **Collection Date:** 01/11/2016 13:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 1-Chlorobutane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 2-Butanone | NELAP | 48.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 2-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 2-Hexanone | NELAP | 48.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 2-Nitropropane | NELAP | 48.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 4-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 48.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Acetone | NELAP | 48.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Acetonitrile | NELAP | 97.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Acrolein | NELAP | 97.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Acrylonitrile | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Allyl chloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Bromobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Bromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Bromodichloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Bromoform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Bromomethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Carbon disulfide | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Carbon tetrachloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Chlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Chloroethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Chloroform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Chloromethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Cyclohexanone | | 97.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Dibromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Dibromomethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Dichlorodifluoromethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Diisopropyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Ethyl ether | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Ethyl methacrylate | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Ethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Ethyl-tert-butyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Hexachlorobutadiene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Hexachloroethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Iodomethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Isopropylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| m,p-Xylenes | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-009 **Client Sample ID:** SCI-43B

**Matrix:** SOLID **Collection Date:** 01/11/2016 13:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 48.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Methyl Methacrylate | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Methylacrylate | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Methylene chloride | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Naphthalene | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| n-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| n-Heptane | | 19.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| n-Hexane | | 19.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Nitrobenzene | NELAP | 97.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| n-Propylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| o-Xylene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Pentachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| p-Isopropyltoluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Propionitrile | NELAP | 48.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| sec-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Styrene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| tert-Amyl methyl ether | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| tert-Butyl alcohol | NELAP | 48.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| tert-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Tetrachloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Tetrahydrofuran | NELAP | 48.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Toluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| TPH - GRO (C6 - C10) | | 486 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Trichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Trichlorofluoromethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Vinyl acetate | NELAP | 48.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Xylenes, Total | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:04 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.1** | %REC | 1 | 01/12/2016 16:04 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **104.6** | %REC | 1 | 01/12/2016 16:04 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **101.2** | %REC | 1 | 01/12/2016 16:04 | 115552 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-010 **Client Sample ID:** SCI-44A

**Matrix:** SOLID **Collection Date:** 01/11/2016 14:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.9** | % | 1 | 01/13/2016 18:03 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **11.9** | mg/Kg-dry | 1 | 01/13/2016 10:24 | 115555 |
| Barium | NELAP | 0.23 | | **208** | mg/Kg-dry | 1 | 01/13/2016 10:24 | 115555 |
| Cadmium | NELAP | 0.18 | | **0.29** | mg/Kg-dry | 1 | 01/13/2016 10:24 | 115555 |
| Chromium | NELAP | 0.45 | | **21.5** | mg/Kg-dry | 1 | 01/13/2016 10:24 | 115555 |
| Lead | NELAP | 1.36 | | **70.0** | mg/Kg-dry | 1 | 01/13/2016 10:24 | 115555 |
| Selenium | NELAP | 3.64 | J | **2.0** | mg/Kg-dry | 1 | 01/13/2016 10:24 | 115555 |
| Silver | NELAP | 0.45 | | **< 0.45** | mg/Kg-dry | 1 | 01/13/2016 10:24 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.319** | mg/Kg-dry | 1 | 01/12/2016 9:43 | 115538 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0838 | | **0.0948** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Anthracene | NELAP | 0.0838 | | **0.260** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0838 | | **0.639** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0838 | | **0.567** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0838 | | **0.700** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0838 | | **0.230** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Chrysene | NELAP | 0.0838 | | **0.608** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0838 | J | **0.073** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Fluoranthene | NELAP | 0.0838 | | **1.31** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Fluorene | NELAP | 0.0838 | | **0.116** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Pyrene | NELAP | 0.0838 | | **1.25** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| TPH-DRO (C10 - C21) | | 29.6 | J | **18** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| TPH-ORO (C21 - C35) | | 29.6 | | **29.8** | mg/Kg-dry | 2 | 01/13/2016 11:59 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **55.3** | %REC | 2 | 01/13/2016 11:59 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **60.6** | %REC | 2 | 01/13/2016 11:59 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **75.9** | %REC | 2 | 01/13/2016 11:59 | 115545 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,1-Dichloro-2-propanone | | 44.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010531
**Client Project:** NGA 2015-0461.21
**Report Date:** 15-Jan-16
**Lab ID:** 16010531-010
**Client Sample ID:** SCI-44A
**Matrix:** SOLID
**Collection Date:** 01/11/2016 14:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 2-Butanone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 2-Hexanone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 2-Nitropropane | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Acetone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Acetonitrile | NELAP | 88.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Acrolein | NELAP | 88.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Acrylonitrile | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Bromomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Chloroethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Chloromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Cyclohexanone | | 88.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Dichlorodifluoromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Iodomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-010 **Client Sample ID:** SCI-44A

**Matrix:** SOLID **Collection Date:** 01/11/2016 14:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Methylacrylate | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Naphthalene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| n-Heptane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| n-Hexane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Nitrobenzene | NELAP | 88.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Propionitrile | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| tert-Butyl alcohol | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Tetrahydrofuran | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| TPH - GRO (C6 - C10) | | 441 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Vinyl acetate | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:31 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **105.8** | %REC | 1 | 01/12/2016 16:31 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **103.0** | %REC | 1 | 01/12/2016 16:31 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **100.0** | %REC | 1 | 01/12/2016 16:31 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-011 **Client Sample ID:** SCI-44B

**Matrix:** SOLID **Collection Date:** 01/11/2016 14:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.7** | % | 1 | 01/13/2016 18:04 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **6.21** | mg/Kg-dry | 1 | 01/13/2016 10:27 | 115555 |
| Barium | NELAP | 0.25 | | **122** | mg/Kg-dry | 1 | 01/13/2016 10:27 | 115555 |
| Cadmium | NELAP | 0.20 | | **0.25** | mg/Kg-dry | 1 | 01/13/2016 10:27 | 115555 |
| Chromium | NELAP | 0.50 | | **19.3** | mg/Kg-dry | 1 | 01/13/2016 10:27 | 115555 |
| Lead | NELAP | 1.50 | | **8.86** | mg/Kg-dry | 1 | 01/13/2016 10:27 | 115555 |
| Selenium | NELAP | 4.00 | J | **2.3** | mg/Kg-dry | 1 | 01/13/2016 10:27 | 115555 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/13/2016 10:27 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.031** | mg/Kg-dry | 1 | 01/12/2016 10:29 | 115538 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Anthracene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Chrysene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Fluoranthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Fluorene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Pyrene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| TPH-DRO (C10 - C21) | | 14.9 | J | **8.1** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| TPH-ORO (C21 - C35) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:29 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **64.2** | %REC | 1 | 01/12/2016 20:29 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **67.7** | %REC | 1 | 01/12/2016 20:29 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **82.7** | %REC | 1 | 01/12/2016 20:29 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,1-Dichloro-2-propanone | | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-011 **Client Sample ID:** SCI-44B

**Matrix:** SOLID **Collection Date:** 01/11/2016 14:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 2-Butanone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 2-Hexanone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 2-Nitropropane | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Acetone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Acetonitrile | NELAP | 89.0 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Acrolein | NELAP | 89.0 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Acrylonitrile | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Bromomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Chloroethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Chloromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Cyclohexanone | | 89.0 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Dichlorodifluoromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Iodomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Methacrylonitrile | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-011 **Client Sample ID:** SCI-44B

**Matrix:** SOLID **Collection Date:** 01/11/2016 14:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Methylacrylate | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Naphthalene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| n-Heptane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| n-Hexane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Nitrobenzene | NELAP | 89.0 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Propionitrile | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| tert-Butyl alcohol | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Tetrahydrofuran | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| TPH - GRO (C6 - C10) | | 445 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Vinyl acetate | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Xylenes, Total | NELAP | 4.4 | J | **1.3** | µg/Kg-dry | 1 | 01/12/2016 16:58 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **95.1** | %REC | 1 | 01/12/2016 16:58 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **107.1** | %REC | 1 | 01/12/2016 16:58 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **102.6** | %REC | 1 | 01/12/2016 16:58 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-012 **Client Sample ID:** SCI-45A

**Matrix:** SOLID **Collection Date:** 01/11/2016 14:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.3** | % | 1 | 01/13/2016 18:04 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **11.5** | mg/Kg-dry | 1 | 01/13/2016 10:31 | 115555 |
| Barium | NELAP | 0.25 | | **230** | mg/Kg-dry | 1 | 01/13/2016 10:31 | 115555 |
| Cadmium | NELAP | 0.20 | | **1.61** | mg/Kg-dry | 1 | 01/13/2016 10:31 | 115555 |
| Chromium | NELAP | 0.50 | | **27.9** | mg/Kg-dry | 1 | 01/13/2016 10:31 | 115555 |
| Lead | NELAP | 1.50 | | **925** | mg/Kg-dry | 1 | 01/13/2016 10:31 | 115555 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/13/2016 10:31 | 115555 |
| Silver | NELAP | 0.50 | J | **0.19** | mg/Kg-dry | 1 | 01/13/2016 10:31 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.062 | | **0.730** | mg/Kg-dry | 5 | 01/12/2016 11:24 | 115538 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0859 | | **0.164** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Anthracene | NELAP | 0.0859 | | **0.473** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0859 | | **2.77** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0859 | | **2.49** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0859 | | **3.82** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0859 | | **1.07** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Chrysene | NELAP | 0.0859 | | **2.51** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0859 | | **0.279** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Fluoranthene | NELAP | 0.0859 | | **5.24** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Fluorene | NELAP | 0.0859 | | **0.115** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Pyrene | NELAP | 0.0859 | | **4.64** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| TPH-DRO (C10 - C21) | | 30.3 | JR | **24** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| TPH-ORO (C21 - C35) | | 30.3 | | **82.4** | mg/Kg-dry | 2 | 01/13/2016 12:29 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **58.6** | %REC | 2 | 01/13/2016 12:29 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **59.7** | %REC | 2 | 01/13/2016 12:29 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **78.2** | %REC | 2 | 01/13/2016 12:29 | 115545 |

*RPD for MS/MSD was outside of QC limit due to sample composition.*
*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,1-Dichloro-2-propanone | | 52.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,1-Dichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,1-Dichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,1-Dichloropropene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,2,3-Trimethylbenzene | | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,2-Dibromoethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-012 **Client Sample ID:** SCI-45A

**Matrix:** SOLID **Collection Date:** 01/11/2016 14:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,2-Dichloroethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,2-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,3-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 1-Chlorobutane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 2,2-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 2-Butanone | NELAP | 52.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 2-Chlorotoluene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 2-Hexanone | NELAP | 52.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 2-Nitropropane | NELAP | 52.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 4-Chlorotoluene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 52.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Acetone | NELAP | 52.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Acetonitrile | NELAP | 105 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Acrolein | NELAP | 105 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Acrylonitrile | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Allyl chloride | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Bromobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Bromochloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Bromodichloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Bromoform | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Bromomethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Carbon disulfide | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Carbon tetrachloride | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Chlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Chloroethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Chloroform | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Chloromethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Cyclohexanone | | 105 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Dibromochloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Dibromomethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Dichlorodifluoromethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Diisopropyl ether | | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Ethyl ether | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Ethyl methacrylate | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Ethylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Ethyl-tert-butyl ether | | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Hexachlorobutadiene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Hexachloroethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Iodomethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Isopropylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010531
**Client Project:** NGA 2015-0461.21
**Report Date:** 15-Jan-16
**Lab ID:** 16010531-012
**Client Sample ID:** SCI-45A
**Matrix:** SOLID
**Collection Date:** 01/11/2016 14:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| m,p-Xylenes | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Methacrylonitrile | NELAP | 52.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Methyl Methacrylate | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Methyl tert-butyl ether | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Methylacrylate | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Methylene chloride | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Naphthalene | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| n-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| n-Heptane | | 20.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| n-Hexane | | 20.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Nitrobenzene | NELAP | 105 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| n-Propylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| o-Xylene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Pentachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| p-Isopropyltoluene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Propionitrile | NELAP | 52.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| sec-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Styrene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| tert-Amyl methyl ether | | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| tert-Butyl alcohol | NELAP | 52.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| tert-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Tetrachloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Tetrahydrofuran | NELAP | 52.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Toluene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| TPH - GRO (C6 - C10) | | 523 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Trichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Trichlorofluoromethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Vinyl acetate | NELAP | 52.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Vinyl chloride | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Xylenes, Total | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 12:53 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.6** | %REC | 1 | 01/13/2016 12:53 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **105.8** | %REC | 1 | 01/13/2016 12:53 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **101.9** | %REC | 1 | 01/13/2016 12:53 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-013 **Client Sample ID:** SCI-45B

**Matrix:** SOLID **Collection Date:** 01/11/2016 14:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **22.2** | % | 1 | 01/13/2016 18:05 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **6.57** | mg/Kg-dry | 1 | 01/13/2016 10:35 | 115555 |
| Barium | NELAP | 0.23 | | **111** | mg/Kg-dry | 1 | 01/13/2016 10:35 | 115555 |
| Cadmium | NELAP | 0.19 | | **0.25** | mg/Kg-dry | 1 | 01/13/2016 10:35 | 115555 |
| Chromium | NELAP | 0.46 | | **18.8** | mg/Kg-dry | 1 | 01/13/2016 10:35 | 115555 |
| Lead | NELAP | 1.39 | | **11.8** | mg/Kg-dry | 1 | 01/13/2016 10:35 | 115555 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 01/13/2016 10:35 | 115555 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/13/2016 10:35 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.040** | mg/Kg-dry | 1 | 01/12/2016 10:44 | 115538 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Anthracene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Chrysene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Fluoranthene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Fluorene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Pyrene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| TPH-DRO (C10 - C21) | | 15.3 | J | **9.6** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| TPH-ORO (C21 - C35) | | 15.3 | J | **10** | mg/Kg-dry | 1 | 01/12/2016 20:59 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **61.1** | %REC | 1 | 01/12/2016 20:59 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **62.2** | %REC | 1 | 01/12/2016 20:59 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **77.0** | %REC | 1 | 01/12/2016 20:59 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,1-Dichloro-2-propanone | | 46.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-013 **Client Sample ID:** SCI-45B

**Matrix:** SOLID **Collection Date:** 01/11/2016 14:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 2-Butanone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 2-Hexanone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 2-Nitropropane | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Acetone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Acetonitrile | NELAP | 93.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Acrolein | NELAP | 93.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Acrylonitrile | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Bromomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Chloroethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Chloromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Cyclohexanone | | 93.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Dichlorodifluoromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Iodomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Methacrylonitrile | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010531
**Client Project:** NGA 2015-0461.21
**Report Date:** 15-Jan-16
**Lab ID:** 16010531-013
**Client Sample ID:** SCI-45B
**Matrix:** SOLID
**Collection Date:** 01/11/2016 14:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Methylacrylate | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Methylene chloride | NELAP | 4.7 | J | **1.4** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Naphthalene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| n-Heptane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| n-Hexane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Nitrobenzene | NELAP | 93.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Propionitrile | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| tert-Butyl alcohol | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Tetrahydrofuran | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| TPH - GRO (C6 - C10) | | 469 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Vinyl acetate | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 17:52 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.8** | %REC | 1 | 01/12/2016 17:52 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **103.5** | %REC | 1 | 01/12/2016 17:52 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **100.9** | %REC | 1 | 01/12/2016 17:52 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-014 **Client Sample ID:** SCI-46A

**Matrix:** SOLID **Collection Date:** 01/11/2016 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.1** | % | 1 | 01/13/2016 18:05 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **12.4** | mg/Kg-dry | 1 | 01/13/2016 11:04 | 115555 |
| Barium | NELAP | 0.23 | | **304** | mg/Kg-dry | 1 | 01/13/2016 11:04 | 115555 |
| Cadmium | NELAP | 0.19 | | **1.02** | mg/Kg-dry | 1 | 01/13/2016 11:04 | 115555 |
| Chromium | NELAP | 0.46 | | **18.9** | mg/Kg-dry | 1 | 01/13/2016 11:04 | 115555 |
| Lead | NELAP | 1.39 | | **206** | mg/Kg-dry | 1 | 01/13/2016 11:04 | 115555 |
| Selenium | NELAP | 3.70 | J | **2.6** | mg/Kg-dry | 1 | 01/13/2016 11:04 | 115555 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/13/2016 11:04 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.106** | mg/Kg-dry | 1 | 01/12/2016 10:47 | 115538 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0858 | J | **0.044** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Anthracene | NELAP | 0.0858 | | **0.0881** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0858 | | **0.534** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0858 | | **0.708** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0858 | | **1.28** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0858 | | **0.437** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Chrysene | NELAP | 0.0858 | | **0.605** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0858 | | **0.0991** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Fluoranthene | NELAP | 0.0858 | | **0.801** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Fluorene | NELAP | 0.0858 | | **ND** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Pyrene | NELAP | 0.0858 | | **0.809** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| TPH-DRO (C10 - C21) | | 30.3 | J | **20** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| TPH-ORO (C21 - C35) | | 30.3 | | **32.7** | mg/Kg-dry | 2 | 01/13/2016 13:59 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **57.3** | %REC | 2 | 01/13/2016 13:59 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **62.7** | %REC | 2 | 01/13/2016 13:59 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **76.6** | %REC | 2 | 01/13/2016 13:59 | 115545 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,1-Dichloro-2-propanone | | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,1-Dichloroethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,1-Dichloroethene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,1-Dichloropropene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,2,3-Trimethylbenzene | | 60.5 | J | **46** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 60.5 | | **77.5** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,2-Dibromoethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-014 **Client Sample ID:** SCI-46A

**Matrix:** SOLID **Collection Date:** 01/11/2016 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,2-Dichloropropane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 60.5 | J | **37** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,3-Dichloropropane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 1-Chlorobutane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 2,2-Dichloropropane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 2-Butanone | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 2-Chlorotoluene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 2-Hexanone | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 2-Nitropropane | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 4-Chlorotoluene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Acetone | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Acetonitrile | NELAP | 1210 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Acrolein | NELAP | 1210 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Acrylonitrile | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Allyl chloride | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Benzene | NELAP | 12.1 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Bromobenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Bromochloromethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Bromodichloromethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Bromoform | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Bromomethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Carbon disulfide | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Carbon tetrachloride | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Chlorobenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Chloroethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Chloroform | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Chloromethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 48.4 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Cyclohexanone | | 1210 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Dibromochloromethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Dibromomethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Dichlorodifluoromethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Diisopropyl ether | | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Ethyl ether | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Ethyl methacrylate | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Ethylbenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Ethyl-tert-butyl ether | | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Hexachlorobutadiene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Hexachloroethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Iodomethane | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Isopropylbenzene | NELAP | 60.5 | J | **14** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| m,p-Xylenes | NELAP | 60.5 | J | **32** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |

# Laboratory Results

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**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-014 **Client Sample ID:** SCI-46A

**Matrix:** SOLID **Collection Date:** 01/11/2016 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Methyl Methacrylate | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Methyl tert-butyl ether | NELAP | 24.2 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Methylacrylate | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Methylene chloride | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Naphthalene | NELAP | 121 | J | **72** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| n-Butylbenzene | NELAP | 60.5 | J | **16** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| n-Heptane | | 242 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| n-Hexane | | 242 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Nitrobenzene | NELAP | 1210 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| n-Propylbenzene | NELAP | 60.5 | J | **19** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| o-Xylene | NELAP | 60.5 | J | **36** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Pentachloroethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| p-Isopropyltoluene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Propionitrile | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| sec-Butylbenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Styrene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| tert-Amyl methyl ether | | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| tert-Butyl alcohol | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| tert-Butylbenzene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Tetrachloroethene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Tetrahydrofuran | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Toluene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| TPH - GRO (C6 - C10) | | 6050 | | **7000** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 48.4 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 121 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Trichloroethene | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Trichlorofluoromethane | NELAP | 60.5 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Vinyl acetate | NELAP | 605 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Vinyl chloride | NELAP | 24.2 | | **ND** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Xylenes, Total | NELAP | 60.5 | | **67.6** | µg/Kg-dry | 12.5 | 01/14/2016 17:25 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **95.6** | %REC | 12.5 | 01/14/2016 17:25 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **94.1** | %REC | 12.5 | 01/14/2016 17:25 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **102.2** | %REC | 12.5 | 01/14/2016 17:25 | 115581 |

*Elevated reporting limit due to matrix interference.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010531
**Client Project:** NGA 2015-0461.21
**Report Date:** 15-Jan-16
**Lab ID:** 16010531-015
**Client Sample ID:** SCI-46B
**Matrix:** SOLID
**Collection Date:** 01/11/2016 15:38

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.9** | % | 1 | 01/13/2016 18:05 | R213742 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **5.04** | mg/Kg-dry | 1 | 01/13/2016 11:07 | 115555 |
| Barium | NELAP | 0.24 | | **87.8** | mg/Kg-dry | 1 | 01/13/2016 11:07 | 115555 |
| Cadmium | NELAP | 0.19 | J | **0.16** | mg/Kg-dry | 1 | 01/13/2016 11:07 | 115555 |
| Chromium | NELAP | 0.48 | | **20.1** | mg/Kg-dry | 1 | 01/13/2016 11:07 | 115555 |
| Lead | NELAP | 1.44 | | **10.6** | mg/Kg-dry | 1 | 01/13/2016 11:07 | 115555 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/13/2016 11:07 | 115555 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/13/2016 11:07 | 115555 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.026** | mg/Kg-dry | 1 | 01/12/2016 10:49 | 115538 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:37 | 115540 |
| Aroclor 1221 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:37 | 115540 |
| Aroclor 1232 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:37 | 115540 |
| Aroclor 1242 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:37 | 115540 |
| Aroclor 1248 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:37 | 115540 |
| Aroclor 1254 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:37 | 115540 |
| Aroclor 1260 | NELAP | 47.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:37 | 115540 |
| Surr: Decachlorobiphenyl | | 5-156 | | **96.6** | %REC | 1 | 01/13/2016 17:37 | 115540 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **78.0** | %REC | 1 | 01/13/2016 17:37 | 115540 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Anthracene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Benzo(a)anthracene | NELAP | 0.0428 | J | **0.027** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Benzo(a)pyrene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Benzo(b)fluoranthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Benzo(k)fluoranthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Chrysene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Dibenzo(a,h)anthracene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Fluoranthene | NELAP | 0.0428 | | **0.0539** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Fluorene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Pyrene | NELAP | 0.0428 | | **0.0449** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| TPH-DRO (C10 - C21) | | 15.1 | J | **8.0** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| TPH-ORO (C21 - C35) | | 15.1 | J | **7.6** | mg/Kg-dry | 1 | 01/12/2016 21:28 | 115545 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **49.4** | %REC | 1 | 01/12/2016 21:28 | 115545 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **53.7** | %REC | 1 | 01/12/2016 21:28 | 115545 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **81.0** | %REC | 1 | 01/12/2016 21:28 | 115545 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,1,1-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,1,2-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,1-Dichloro-2-propanone | | 42.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,1-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,1-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-015 **Client Sample ID:** SCI-46B

**Matrix:** SOLID **Collection Date:** 01/11/2016 15:38

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2,3-Trichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2,3-Trichloropropane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2,3-Trimethylbenzene | | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2,4-Trichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2,4-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2-Dibromoethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2-Dichloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,3,5-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,3-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,3-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1,4-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 1-Chlorobutane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 2,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 2-Butanone | NELAP | 42.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 2-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 2-Hexanone | NELAP | 42.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 2-Nitropropane | NELAP | 42.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 4-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| 4-Methyl-2-pentanone | NELAP | 42.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Acetone | NELAP | 42.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Acetonitrile | NELAP | 84.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Acrolein | NELAP | 84.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Acrylonitrile | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Allyl chloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Bromobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Bromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Bromodichloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Bromoform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Bromomethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Carbon disulfide | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Carbon tetrachloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Chlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Chloroethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Chloroform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Chloromethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| cis-1,2-Dichloroethene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Cyclohexanone | | 84.1 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Dibromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Dibromomethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Dichlorodifluoromethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Diisopropyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-015 **Client Sample ID:** SCI-46B

**Matrix:** SOLID **Collection Date:** 01/11/2016 15:38

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Ethyl methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Ethylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Ethyl-tert-butyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Hexachlorobutadiene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Hexachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Iodomethane | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Isopropylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| m,p-Xylenes | NELAP | 4.2 | J | **0.9** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Methacrylonitrile | NELAP | 42.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Methyl Methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Methylacrylate | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Methylene chloride | NELAP | 4.2 | J | **1.2** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Naphthalene | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| n-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| n-Heptane | | 16.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| n-Hexane | | 16.8 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Nitrobenzene | NELAP | 84.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| n-Propylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| o-Xylene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Pentachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| p-Isopropyltoluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Propionitrile | NELAP | 42.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| sec-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Styrene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| tert-Amyl methyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| tert-Butyl alcohol | NELAP | 42.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| tert-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Tetrachloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Tetrahydrofuran | NELAP | 42.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Toluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| TPH - GRO (C6 - C10) | | 421 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| trans-1,2-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Trichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Trichlorofluoromethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Vinyl acetate | NELAP | 42.1 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Xylenes, Total | NELAP | 4.2 | J | **0.9** | µg/Kg-dry | 1 | 01/12/2016 18:46 | 115552 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **95.4** | %REC | 1 | 01/12/2016 18:46 | 115552 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **104.0** | %REC | 1 | 01/12/2016 18:46 | 115552 |
| Surr: Toluene-d8 | | 86-116 | | **102.1** | %REC | 1 | 01/12/2016 18:46 | 115552 |

*Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-016 **Client Sample ID:** TB-6

**Matrix:** TRIP BLANK **Collection Date:** 01/11/2016 16:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Acetone | NELAP | 25.0 | J | **9.4** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-016 **Client Sample ID:** TB-6

**Matrix:** TRIP BLANK **Collection Date:** 01/11/2016 16:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Naphthalene | NELAP | 3.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010531
**Client Project:** NGA 2015-0461.21
**Report Date:** 15-Jan-16
**Lab ID:** 16010531-016
**Client Sample ID:** TB-6
**Matrix:** TRIP BLANK
**Collection Date:** 01/11/2016 16:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 11:36 | 115558 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **95.4** | %REC | 1 | 01/12/2016 11:36 | 115558 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **102.0** | %REC | 1 | 01/12/2016 11:36 | 115558 |
| Surr: Toluene-d8 | | 84.3-114 | | **96.7** | %REC | 1 | 01/12/2016 11:36 | 115558 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-017 **Client Sample ID:** EB-4

**Matrix:** AQUEOUS **Collection Date:** 01/11/2016 15:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Acetone | NELAP | 25.0 | J | **11** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

**Lab ID:** 16010531-017 **Client Sample ID:** EB-4

**Matrix:** AQUEOUS **Collection Date:** 01/11/2016 15:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Naphthalene | NELAP | 3.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010531
**Client Project:** NGA 2015-0461.21
**Report Date:** 15-Jan-16
**Lab ID:** 16010531-017
**Client Sample ID:** EB-4
**Matrix:** AQUEOUS
**Collection Date:** 01/11/2016 15:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/12/2016 12:03 | 115558 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **98.5** | %REC | 1 | 01/12/2016 12:03 | 115558 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **102.4** | %REC | 1 | 01/12/2016 12:03 | 115558 |
| Surr: Toluene-d8 | | 84.3-114 | | **98.5** | %REC | 1 | 01/12/2016 12:03 | 115558 |

# Quality Control Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010531
**Report Date:** 15-Jan-16

## EPA SW846 3550C, 5035A, ASTM D2974

**Batch** R213742 **SampType:** LCS Units **%**
SampID: LCS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 01/13/2016 |

**Batch** R213742 **SampType:** LCSQC Units **%**
SampID: LCSQC

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 01/13/2016 |

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115555 **SampType:** MBLK Units **mg/Kg-dry**
SampID: MBLK-115555

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 01/13/2016 |
| Barium | 0.25 | | **< 0.25** | 0.2500 | 0 | 0 | -100 | 100 | 01/13/2016 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 01/13/2016 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/13/2016 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 01/13/2016 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 01/13/2016 |
| Silver | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/13/2016 |

**Batch** 115555 **SampType:** LCS Units **mg/Kg-dry**
SampID: LCS-115555

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **46.8** | 50.00 | 0 | 93.6 | 85 | 115 | 01/13/2016 |
| Barium | 0.25 | | **188** | 200.0 | 0 | 94.0 | 85 | 115 | 01/13/2016 |
| Cadmium | 0.20 | | **4.79** | 5.000 | 0 | 95.8 | 85 | 115 | 01/13/2016 |
| Chromium | 0.50 | | **20.0** | 20.00 | 0 | 100.2 | 85 | 115 | 01/13/2016 |
| Lead | 1.50 | | **50.6** | 50.00 | 0 | 101.1 | 85 | 115 | 01/13/2016 |
| Selenium | 4.00 | | **47.8** | 50.00 | 0 | 95.5 | 85 | 115 | 01/13/2016 |
| Silver | 0.50 | | **4.52** | 5.000 | 0 | 90.4 | 85 | 115 | 01/13/2016 |

**Batch** 115555 **SampType:** MS Units **mg/Kg-dry**
SampID: 16010531-005AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **51.2** | 50.00 | 5.830 | 90.6 | 75 | 125 | 01/13/2016 |
| Barium | 0.25 | | **292** | 200.0 | 102.7 | 94.8 | 75 | 125 | 01/13/2016 |
| Cadmium | 0.20 | | **4.91** | 5.000 | 0.2100 | 94.0 | 75 | 125 | 01/13/2016 |
| Chromium | 0.50 | | **42.5** | 20.00 | 22.20 | 101.4 | 75 | 125 | 01/13/2016 |
| Lead | 1.50 | | **59.7** | 50.00 | 10.21 | 98.9 | 75 | 125 | 01/13/2016 |
| Selenium | 4.00 | | **47.1** | 50.00 | 0 | 94.2 | 75 | 125 | 01/13/2016 |
| Silver | 0.50 | | **4.31** | 5.000 | 0 | 86.2 | 75 | 125 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 3050B, 6010B, METALS BY ICP

**Batch 115555** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **20**

SampID: 16010531-005AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **51.0** | 50.00 | 5.830 | 90.4 | 51.15 | 0.20 | 01/13/2016 |
| Barium | 0.25 | | **300** | 200.0 | 102.7 | 98.4 | 292.4 | 2.40 | 01/13/2016 |
| Cadmium | 0.20 | | **4.94** | 5.000 | 0.2100 | 94.6 | 4.910 | 0.61 | 01/13/2016 |
| Chromium | 0.50 | | **42.7** | 20.00 | 22.20 | 102.4 | 42.49 | 0.45 | 01/13/2016 |
| Lead | 1.50 | | **59.9** | 50.00 | 10.21 | 99.4 | 59.66 | 0.40 | 01/13/2016 |
| Selenium | 4.00 | | **48.7** | 50.00 | 0 | 97.4 | 47.11 | 3.30 | 01/13/2016 |
| Silver | 0.50 | | **4.29** | 5.000 | 0 | 85.8 | 4.310 | 0.47 | 01/13/2016 |

**Batch 115555** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010531-013AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.31 | | **49.2** | 46.30 | 6.574 | 92.1 | 75 | 125 | 01/13/2016 |
| Barium | 0.23 | | **288** | 185.2 | 111.5 | 95.3 | 75 | 125 | 01/13/2016 |
| Cadmium | 0.19 | | **4.74** | 4.630 | 0.2500 | 97.0 | 75 | 125 | 01/13/2016 |
| Chromium | 0.46 | | **37.0** | 18.52 | 18.79 | 98.6 | 75 | 125 | 01/13/2016 |
| Lead | 1.39 | | **60.2** | 46.30 | 11.82 | 104.6 | 75 | 125 | 01/13/2016 |
| Selenium | 3.70 | | **45.4** | 46.30 | 0 | 98.1 | 75 | 125 | 01/13/2016 |
| Silver | 0.46 | | **4.05** | 4.630 | 0 | 87.4 | 75 | 125 | 01/13/2016 |

**Batch 115555** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **20**

SampID: 16010531-013AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.31 | | **49.5** | 46.30 | 6.574 | 92.8 | 49.23 | 0.64 | 01/13/2016 |
| Barium | 0.23 | | **299** | 185.2 | 111.5 | 101.1 | 287.9 | 3.69 | 01/13/2016 |
| Cadmium | 0.19 | | **4.73** | 4.630 | 0.2500 | 96.8 | 4.741 | 0.20 | 01/13/2016 |
| Chromium | 0.46 | | **37.7** | 18.52 | 18.79 | 102.0 | 37.05 | 1.69 | 01/13/2016 |
| Lead | 1.39 | | **60.8** | 46.30 | 11.82 | 105.7 | 60.23 | 0.87 | 01/13/2016 |
| Selenium | 3.70 | | **45.1** | 46.30 | 0 | 97.4 | 45.42 | 0.72 | 01/13/2016 |
| Silver | 0.46 | | **4.02** | 4.630 | 0 | 86.8 | 4.046 | 0.69 | 01/13/2016 |

## SW-846 7471B

**Batch 115538** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115538

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **< 0.010** | 0.01000 | 0 | 0 | -100 | 100 | 01/12/2016 |

**Batch 115538** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115538

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.254** | 0.2500 | 0 | 101.7 | 85 | 115 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 7471B

**Batch 115538** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010510-001AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.753 | | **21.6** | 18.82 | 1.540 | 106.8 | 75 | 125 | 01/12/2016 |

**Batch 115538** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**

SampID: 16010510-001AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.753 | | **21.2** | 18.82 | 1.540 | 104.5 | 21.65 | 2.09 | 01/12/2016 |

**Batch 115538** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010531-005AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.340** | 0.2997 | 0.02691 | 104.6 | 75 | 125 | 01/12/2016 |

**Batch 115538** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**

SampID: 16010531-005AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.336** | 0.2997 | 0.02691 | 103.2 | 0.3405 | 1.29 | 01/12/2016 |

## SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD

**Batch 115540** **SampType: MBLK** Units **µg/Kg**

SampID: MBLK-115540

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 37.5 | | **ND** | | | | | | 01/13/2016 |
| Aroclor 1221 | 37.5 | | **ND** | | | | | | 01/13/2016 |
| Aroclor 1232 | 37.5 | | **ND** | | | | | | 01/13/2016 |
| Aroclor 1242 | 37.5 | | **ND** | | | | | | 01/13/2016 |
| Aroclor 1248 | 37.5 | | **ND** | | | | | | 01/13/2016 |
| Aroclor 1254 | 37.5 | | **ND** | | | | | | 01/13/2016 |
| Aroclor 1260 | 37.5 | | **ND** | | | | | | 01/13/2016 |
| Surr: Decachlorobiphenyl | | | **8.2** | 8.300 | | 99.3 | 76.4 | 155 | 01/13/2016 |
| Surr: Tetrachloro-meta-xylene | | | **7.1** | 8.300 | | 85.9 | 44.4 | 122 | 01/13/2016 |

**Batch 115540** **SampType: LCS** Units **µg/Kg**

SampID: LCSPCB-115540

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 37.5 | | **144** | 166.7 | 0 | 86.1 | 63.5 | 130 | 01/13/2016 |
| Aroclor 1260 | 37.5 | | **141** | 166.7 | 0 | 84.9 | 76 | 138 | 01/13/2016 |
| Surr: Decachlorobiphenyl | | | **7.2** | 8.300 | | 87.2 | 76.4 | 155 | 01/13/2016 |
| Surr: Tetrachloro-meta-xylene | | | **7.0** | 8.300 | | 84.8 | 44.4 | 122 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD

**Batch 115540** **SampType: MS** Units **µg/Kg-dry**

SampID: 16010531-006AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 45.9 | | **153** | 204.1 | 0 | 74.9 | 35.8 | 143 | 01/13/2016 |
| Aroclor 1260 | 45.9 | | **161** | 204.1 | 0 | 79.0 | 22.3 | 152 | 01/13/2016 |
| Surr: Decachlorobiphenyl | | | **9.0** | 10.16 | | 88.6 | 5 | 156 | 01/13/2016 |
| Surr: Tetrachloro-meta-xylene | | | **8.2** | 10.16 | | 80.8 | 7.35 | 123 | 01/13/2016 |

**Batch 115540** **SampType: MSD** Units **µg/Kg-dry** RPD Limit **40**

SampID: 16010531-006AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 46.0 | | **147** | 204.5 | 0 | 71.7 | 152.8 | 4.14 | 01/13/2016 |
| Aroclor 1260 | 46.0 | | **160** | 204.5 | 0 | 78.3 | 161.2 | 0.72 | 01/13/2016 |
| Surr: Decachlorobiphenyl | | | **9.2** | 10.18 | | 89.9 | | | 01/13/2016 |
| Surr: Tetrachloro-meta-xylene | | | **7.8** | 10.18 | | 76.2 | | | 01/13/2016 |

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115545** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115545

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Anthracene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Benzo(a)anthracene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Benzo(a)pyrene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Chrysene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Fluoranthene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Fluorene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| Pyrene | 0.0340 | | **ND** | | | | | | 01/12/2016 |
| TPH-DRO (C10 - C21) | 12.0 | J | **6.8** | | | | | | 01/12/2016 |
| TPH-ORO (C21 - C35) | 12.0 | J | **7.6** | | | | | | 01/12/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.675** | 0.8350 | | 80.9 | 42.6 | 97.2 | 01/12/2016 |
| Surr: Nitrobenzene-d5 | | | **0.637** | 0.8350 | | 76.3 | 16.7 | 118 | 01/12/2016 |
| Surr: p-Terphenyl-d14 | | | **0.785** | 0.8350 | | 94.0 | 50.1 | 111 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115545** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115545

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **1.34** | 1.670 | 0 | 80.5 | 56.4 | 104 | 01/12/2016 |
| Anthracene | 0.0340 | | **1.24** | 1.670 | 0 | 74.0 | 55.9 | 101 | 01/12/2016 |
| Benzo(a)anthracene | 0.0340 | | **1.23** | 1.670 | 0 | 73.9 | 51.7 | 107 | 01/12/2016 |
| Benzo(a)pyrene | 0.0340 | | **1.30** | 1.670 | 0 | 77.7 | 57.2 | 114 | 01/12/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **1.32** | 1.670 | 0 | 78.9 | 45.3 | 116 | 01/12/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **1.30** | 1.670 | 0 | 77.8 | 58.2 | 114 | 01/12/2016 |
| Chrysene | 0.0340 | | **1.27** | 1.670 | 0 | 76.1 | 58.9 | 102 | 01/12/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **1.41** | 1.670 | 0 | 84.6 | 48.9 | 123 | 01/12/2016 |
| Fluoranthene | 0.0340 | | **1.28** | 1.670 | 0 | 76.8 | 54.9 | 108 | 01/12/2016 |
| Fluorene | 0.0340 | | **1.27** | 1.670 | 0 | 76.3 | 58 | 101 | 01/12/2016 |
| Pyrene | 0.0340 | | **1.31** | 1.670 | 0 | 78.5 | 53.4 | 107 | 01/12/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.592** | 0.8350 | | 70.9 | 42.6 | 97.2 | 01/12/2016 |
| Surr: Nitrobenzene-d5 | | | **0.788** | 0.8350 | | 94.4 | 16.7 | 118 | 01/12/2016 |
| Surr: p-Terphenyl-d14 | | | **0.701** | 0.8350 | | 83.9 | 50.1 | 111 | 01/12/2016 |

**Batch 115545** **SampType: LCSG** Units **mg/Kg**

SampID: LCSDRO-115545

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 12.0 | | **28.4** | 33.40 | 0 | 84.9 | 53.7 | 103 | 01/12/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.440** | 0.8350 | | 52.7 | 42.6 | 97.2 | 01/12/2016 |
| Surr: Nitrobenzene-d5 | | | **0.380** | 0.8350 | | 45.5 | 16.7 | 118 | 01/12/2016 |
| Surr: p-Terphenyl-d14 | | | **0.678** | 0.8350 | | 81.2 | 50.1 | 111 | 01/12/2016 |

**Batch 115545** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010531-012AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 30.2 | | **63.4** | 42.05 | 23.88 | 94.1 | 34.5 | 160 | 01/13/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.523** | 1.051 | | 49.7 | 12 | 133 | 01/13/2016 |
| Surr: Nitrobenzene-d5 | | | **0.569** | 1.051 | | 54.1 | 30.9 | 115 | 01/13/2016 |
| Surr: p-Terphenyl-d14 | | | **0.776** | 1.051 | | 73.8 | 31.5 | 137 | 01/13/2016 |

**Batch 115545** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **30**

SampID: 16010531-012AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 30.2 | R | **45.3** | 42.04 | 23.88 | 50.9 | 63.45 | 33.40 | 01/13/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.474** | 1.051 | | 45.1 | | | 01/13/2016 |
| Surr: Nitrobenzene-d5 | | | **0.544** | 1.051 | | 51.7 | | | 01/13/2016 |
| Surr: p-Terphenyl-d14 | | | **0.794** | 1.051 | | 75.6 | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115558** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Butanone | 25.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Hexanone | 25.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **ND** | | | | | | 01/12/2016 |
| Acetone | 25.0 | | **ND** | | | | | | 01/12/2016 |
| Acetonitrile | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/12/2016 |
| Acrylonitrile | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Benzene | 2.0 | | **ND** | | | | | | 01/12/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115558** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Chloromethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Chloroprene | 20.0 | | **ND** | | | | | | 01/12/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Cyclohexanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Diisopropyl ether | 2.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl acetate | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **ND** | | | | | | 01/12/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Hexachloroethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Iodomethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Methacrylonitrile | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/12/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/12/2016 |
| n-Butyl acetate | 25.0 | | **ND** | | | | | | 01/12/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/12/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/12/2016 |
| Nitrobenzene | 50.0 | | **ND** | | | | | | 01/12/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Pentachloroethane | 20.0 | | **ND** | | | | | | 01/12/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/12/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| tert-Amyl methyl ether | 2.0 | | **ND** | | | | | | 01/12/2016 |
| tert-Butyl alcohol | 25.0 | | **ND** | | | | | | 01/12/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Tetrahydrofuran | 20.0 | | **ND** | | | | | | 01/12/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115558** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Vinyl acetate | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/12/2016 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 01/12/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.9** | 50.00 | | 95.8 | 74.7 | 129 | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.3** | 50.00 | | 100.5 | 86 | 119 | 01/12/2016 |
| Surr: Toluene-d8 | | | **49.1** | 50.00 | | 98.2 | 84.3 | 114 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115558** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **52.1** | 50.00 | 0 | 104.1 | 52.38 | 0.59 | 01/12/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **47.7** | 50.00 | 0 | 95.4 | 46.77 | 2.01 | 01/12/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 47.04 | 4.08 | 01/12/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **45.9** | 50.00 | 0 | 91.9 | 45.63 | 0.68 | 01/12/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 49.02 | 0.37 | 01/12/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **112** | 125.0 | 0 | 89.8 | 105.4 | 6.26 | 01/12/2016 |
| 1,1-Dichloroethane | 5.0 | | **45.2** | 50.00 | 0 | 90.4 | 45.40 | 0.44 | 01/12/2016 |
| 1,1-Dichloroethene | 5.0 | | **45.5** | 50.00 | 0 | 91.0 | 45.44 | 0.11 | 01/12/2016 |
| 1,1-Dichloropropene | 5.0 | | **48.0** | 50.00 | 0 | 96.1 | 47.94 | 0.21 | 01/12/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 51.02 | 0.31 | 01/12/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **46.3** | 50.00 | 0 | 92.7 | 45.64 | 1.50 | 01/12/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.7 | 50.01 | 0.30 | 01/12/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 49.53 | 1.26 | 01/12/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 51.81 | 1.54 | 01/12/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.5** | 50.00 | 0 | 94.9 | 44.63 | 6.17 | 01/12/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 49.72 | 0.63 | 01/12/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 51.15 | 0.14 | 01/12/2016 |
| 1,2-Dichloroethane | 5.0 | | **45.9** | 50.00 | 0 | 91.7 | 45.66 | 0.46 | 01/12/2016 |
| 1,2-Dichloropropane | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 47.87 | 0.44 | 01/12/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 51.24 | 1.86 | 01/12/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 50.41 | 0.18 | 01/12/2016 |
| 1,3-Dichloropropane | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 47.87 | 1.01 | 01/12/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.7 | 49.98 | 0.24 | 01/12/2016 |
| 1-Chlorobutane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 46.88 | 0.51 | 01/12/2016 |
| 2,2-Dichloropropane | 5.0 | | **48.2** | 50.00 | 0 | 96.5 | 47.90 | 0.73 | 01/12/2016 |
| 2-Butanone | 25.0 | | **125** | 125.0 | 0 | 100.3 | 116.4 | 7.46 | 01/12/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **51.0** | 50.00 | 0 | 101.9 | 47.84 | 6.32 | 01/12/2016 |
| 2-Chlorotoluene | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 49.71 | 0.26 | 01/12/2016 |
| 2-Hexanone | 25.0 | | **120** | 125.0 | 0 | 96.1 | 113.2 | 5.91 | 01/12/2016 |
| 2-Nitropropane | 50.0 | | **520** | 500.0 | 0 | 104.1 | 504.5 | 3.08 | 01/12/2016 |
| 4-Chlorotoluene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 49.70 | 0.04 | 01/12/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **119** | 125.0 | 0 | 95.4 | 111.8 | 6.47 | 01/12/2016 |
| Acetone | 25.0 | | **141** | 125.0 | 0 | 112.9 | 127.3 | 10.30 | 01/12/2016 |
| Acetonitrile | 50.0 | | **481** | 500.0 | 0 | 96.2 | 448.7 | 6.98 | 01/12/2016 |
| Acrolein | 100 | | **453** | 500.0 | 0 | 90.7 | 449.4 | 0.88 | 01/12/2016 |
| Acrylonitrile | 5.0 | | **44.6** | 50.00 | 0 | 89.1 | 44.40 | 0.38 | 01/12/2016 |
| Allyl chloride | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 47.70 | 4.49 | 01/12/2016 |
| Benzene | 2.0 | | **48.7** | 50.00 | 0 | 97.3 | 48.93 | 0.55 | 01/12/2016 |
| Bromobenzene | 5.0 | | **48.6** | 50.00 | 0 | 97.2 | 48.06 | 1.12 | 01/12/2016 |
| Bromochloromethane | 5.0 | | **46.4** | 50.00 | 0 | 92.8 | 45.14 | 2.80 | 01/12/2016 |
| Bromodichloromethane | 5.0 | | **50.9** | 50.00 | 0 | 101.9 | 50.85 | 0.16 | 01/12/2016 |
| Bromoform | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 52.12 | 0.69 | 01/12/2016 |
| Bromomethane | 10.0 | | **48.7** | 50.00 | 0 | 97.4 | 48.52 | 0.35 | 01/12/2016 |
| Carbon disulfide | 5.0 | | **45.2** | 50.00 | 0 | 90.3 | 43.83 | 2.97 | 01/12/2016 |
| Carbon tetrachloride | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 50.03 | 0.52 | 01/12/2016 |
| Chlorobenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 48.98 | 0.00 | 01/12/2016 |
| Chloroethane | 10.0 | | **43.9** | 50.00 | 0 | 87.8 | 43.28 | 1.42 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115558** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **45.4** | 50.00 | 0 | 90.8 | 45.45 | 0.07 | 01/12/2016 |
| Chloromethane | 10.0 | | **37.7** | 50.00 | 0 | 75.4 | 38.71 | 2.59 | 01/12/2016 |
| Chloroprene | 20.0 | | **42.8** | 50.00 | 0 | 85.7 | 42.16 | 1.58 | 01/12/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 46.82 | 1.21 | 01/12/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 52.20 | 1.41 | 01/12/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **46.4** | 50.00 | 0 | 92.9 | 44.36 | 4.60 | 01/12/2016 |
| Cyclohexanone | 50.0 | | **432** | 500.0 | 0 | 86.3 | 408.6 | 5.46 | 01/12/2016 |
| Dibromochloromethane | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 52.54 | 0.99 | 01/12/2016 |
| Dibromomethane | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 48.12 | 0.56 | 01/12/2016 |
| Dichlorodifluoromethane | 10.0 | | **36.7** | 50.00 | 0 | 73.4 | 37.30 | 1.62 | 01/12/2016 |
| Diisopropyl ether | 2.0 | | **49.3** | 50.00 | 0 | 98.6 | 49.27 | 0.04 | 01/12/2016 |
| Ethyl acetate | 10.0 | | **47.0** | 50.00 | 0 | 93.9 | 43.41 | 7.86 | 01/12/2016 |
| Ethyl ether | 5.0 | | **45.0** | 50.00 | 0 | 90.1 | 44.41 | 1.39 | 01/12/2016 |
| Ethyl methacrylate | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 49.03 | 1.24 | 01/12/2016 |
| Ethylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.5 | 48.70 | 0.06 | 01/12/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **48.4** | 50.00 | 0 | 96.8 | 47.87 | 1.14 | 01/12/2016 |
| Hexachlorobutadiene | 5.0 | | **52.3** | 50.00 | 0 | 104.5 | 52.97 | 1.35 | 01/12/2016 |
| Hexachloroethane | 10.0 | | **49.9** | 50.00 | 0 | 99.7 | 50.11 | 0.48 | 01/12/2016 |
| Iodomethane | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 54.23 | 1.23 | 01/12/2016 |
| Isopropylbenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 52.00 | 1.49 | 01/12/2016 |
| m,p-Xylenes | 5.0 | | **99.0** | 100.0 | 0 | 99.0 | 100.0 | 1.06 | 01/12/2016 |
| Methacrylonitrile | 10.0 | | **47.9** | 50.00 | 0 | 95.8 | 44.39 | 7.65 | 01/12/2016 |
| Methyl Methacrylate | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 49.43 | 0.43 | 01/12/2016 |
| Methyl tert-butyl ether | 2.0 | | **49.3** | 50.00 | 0 | 98.6 | 47.87 | 2.98 | 01/12/2016 |
| Methylacrylate | 10.0 | | **50.8** | 50.00 | 0 | 101.6 | 47.03 | 7.71 | 01/12/2016 |
| Methylene chloride | 5.0 | | **45.0** | 50.00 | 0 | 90.1 | 44.73 | 0.67 | 01/12/2016 |
| Naphthalene | 10.0 | | **52.9** | 50.00 | 0 | 105.7 | 52.01 | 1.62 | 01/12/2016 |
| n-Butyl acetate | 25.0 | | **47.9** | 50.00 | 0 | 95.8 | 45.72 | 4.64 | 01/12/2016 |
| n-Butylbenzene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 51.16 | 0.31 | 01/12/2016 |
| n-Heptane | 20.0 | | **47.4** | 50.00 | 0 | 94.7 | 47.49 | 0.30 | 01/12/2016 |
| n-Hexane | 20.0 | | **44.9** | 50.00 | 0 | 89.9 | 45.85 | 2.00 | 01/12/2016 |
| Nitrobenzene | 50.0 | | **440** | 500.0 | 0 | 87.9 | 407.9 | 7.52 | 01/12/2016 |
| n-Propylbenzene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 49.68 | 0.59 | 01/12/2016 |
| o-Xylene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 50.91 | 1.23 | 01/12/2016 |
| Pentachloroethane | 20.0 | | **51.6** | 50.00 | 0 | 103.2 | 52.06 | 0.91 | 01/12/2016 |
| p-Isopropyltoluene | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 52.50 | 0.27 | 01/12/2016 |
| Propionitrile | 50.0 | | **481** | 500.0 | 0 | 96.2 | 450.4 | 6.59 | 01/12/2016 |
| sec-Butylbenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 50.95 | 1.05 | 01/12/2016 |
| Styrene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 53.62 | 2.21 | 01/12/2016 |
| tert-Amyl methyl ether | 2.0 | | **52.0** | 50.00 | 0 | 103.9 | 51.37 | 1.16 | 01/12/2016 |
| tert-Butyl alcohol | 25.0 | | **227** | 250.0 | 0 | 91.0 | 208.5 | 8.70 | 01/12/2016 |
| tert-Butylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.5 | 49.42 | 1.39 | 01/12/2016 |
| Tetrachloroethene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 48.31 | 0.35 | 01/12/2016 |
| Tetrahydrofuran | 20.0 | | **47.2** | 50.00 | 0 | 94.3 | 43.54 | 8.00 | 01/12/2016 |
| Toluene | 5.0 | | **47.8** | 50.00 | 0 | 95.7 | 48.52 | 1.39 | 01/12/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **46.6** | 50.00 | 0 | 93.2 | 45.24 | 2.96 | 01/12/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 52.03 | 1.57 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115558** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **51.4** | 50.00 | 0 | 102.8 | 48.99 | 4.82 | 01/12/2016 |
| Trichloroethene | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 48.32 | 0.10 | 01/12/2016 |
| Trichlorofluoromethane | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 48.36 | 2.59 | 01/12/2016 |
| Vinyl acetate | 10.0 | | **47.3** | 50.00 | 0 | 94.7 | 48.14 | 1.70 | 01/12/2016 |
| Vinyl chloride | 2.0 | | **44.8** | 50.00 | 0 | 89.6 | 45.72 | 2.06 | 01/12/2016 |
| Xylenes, Total | 5.0 | | **149** | 150.0 | 0 | 99.5 | 151.0 | 1.11 | 01/12/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **94.0** | 100.0 | 0 | 94.0 | 92.06 | 2.07 | 01/12/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **104** | 100.0 | 0 | 104.2 | 104.2 | 0.07 | 01/12/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **97.9** | 100.0 | 0 | 97.9 | 93.35 | 4.72 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.0** | 50.00 | | 94.1 | | | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.1** | 50.00 | | 100.2 | | | 01/12/2016 |
| Surr: Toluene-d8 | | | **48.4** | 50.00 | | 96.7 | | | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115558** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 81.9 | 115 | 01/12/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **46.8** | 50.00 | 0 | 93.5 | 79.4 | 124 | 01/12/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **47.0** | 50.00 | 0 | 94.1 | 74.7 | 116 | 01/12/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **45.6** | 50.00 | 0 | 91.3 | 72.9 | 121 | 01/12/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 80.8 | 111 | 01/12/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **105** | 125.0 | 0 | 84.3 | 66.3 | 130 | 01/12/2016 |
| 1,1-Dichloroethane | 5.0 | | **45.4** | 50.00 | 0 | 90.8 | 79.4 | 114 | 01/12/2016 |
| 1,1-Dichloroethene | 5.0 | | **45.4** | 50.00 | 0 | 90.9 | 74.1 | 117 | 01/12/2016 |
| 1,1-Dichloropropene | 5.0 | | **47.9** | 50.00 | 0 | 95.9 | 81.7 | 116 | 01/12/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 79.7 | 118 | 01/12/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **45.6** | 50.00 | 0 | 91.3 | 77.3 | 112 | 01/12/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 79.9 | 119 | 01/12/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 79.3 | 118 | 01/12/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 78.7 | 115 | 01/12/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **44.6** | 50.00 | 0 | 89.3 | 76 | 122 | 01/12/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 80.8 | 114 | 01/12/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 78.3 | 112 | 01/12/2016 |
| 1,2-Dichloroethane | 5.0 | | **45.7** | 50.00 | 0 | 91.3 | 70.6 | 118 | 01/12/2016 |
| 1,2-Dichloropropane | 5.0 | | **47.9** | 50.00 | 0 | 95.7 | 79.6 | 113 | 01/12/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 77.5 | 115 | 01/12/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 78.6 | 117 | 01/12/2016 |
| 1,3-Dichloropropane | 5.0 | | **47.9** | 50.00 | 0 | 95.7 | 78.8 | 112 | 01/12/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 77.8 | 114 | 01/12/2016 |
| 1-Chlorobutane | 5.0 | | **46.9** | 50.00 | 0 | 93.8 | 78.6 | 115 | 01/12/2016 |
| 2,2-Dichloropropane | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 74.9 | 130 | 01/12/2016 |
| 2-Butanone | 25.0 | | **116** | 125.0 | 0 | 93.1 | 70.7 | 136 | 01/12/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **47.8** | 50.00 | 0 | 95.7 | 52.5 | 145 | 01/12/2016 |
| 2-Chlorotoluene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 77.4 | 114 | 01/12/2016 |
| 2-Hexanone | 25.0 | | **113** | 125.0 | 0 | 90.6 | 73.3 | 125 | 01/12/2016 |
| 2-Nitropropane | 50.0 | | **505** | 500.0 | 0 | 100.9 | 67.3 | 139 | 01/12/2016 |
| 4-Chlorotoluene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 78.3 | 115 | 01/12/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **112** | 125.0 | 0 | 89.4 | 76.3 | 122 | 01/12/2016 |
| Acetone | 25.0 | | **127** | 125.0 | 0 | 101.8 | 56.4 | 147 | 01/12/2016 |
| Acetonitrile | 50.0 | | **449** | 500.0 | 0 | 89.7 | 59.3 | 129 | 01/12/2016 |
| Acrolein | 100 | | **449** | 500.0 | 0 | 89.9 | 1 | 201 | 01/12/2016 |
| Acrylonitrile | 5.0 | | **44.4** | 50.00 | 0 | 88.8 | 74.1 | 128 | 01/12/2016 |
| Allyl chloride | 5.0 | | **47.7** | 50.00 | 0 | 95.4 | 71.5 | 123 | 01/12/2016 |
| Benzene | 2.0 | | **48.9** | 50.00 | 0 | 97.9 | 80 | 114 | 01/12/2016 |
| Bromobenzene | 5.0 | | **48.1** | 50.00 | 0 | 96.1 | 73.2 | 118 | 01/12/2016 |
| Bromochloromethane | 5.0 | | **45.1** | 50.00 | 0 | 90.3 | 73.3 | 121 | 01/12/2016 |
| Bromodichloromethane | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 81.6 | 121 | 01/12/2016 |
| Bromoform | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 83.1 | 127 | 01/12/2016 |
| Bromomethane | 10.0 | | **48.5** | 50.00 | 0 | 97.0 | 44.4 | 154 | 01/12/2016 |
| Carbon disulfide | 5.0 | | **43.8** | 50.00 | 0 | 87.7 | 73.2 | 118 | 01/12/2016 |
| Carbon tetrachloride | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 79.4 | 130 | 01/12/2016 |
| Chlorobenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 81.4 | 110 | 01/12/2016 |
| Chloroethane | 10.0 | | **43.3** | 50.00 | 0 | 86.6 | 52.1 | 137 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115558** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **45.4** | 50.00 | 0 | 90.9 | 82.7 | 116 | 01/12/2016 |
| Chloromethane | 10.0 | | **38.7** | 50.00 | 0 | 77.4 | 48.2 | 144 | 01/12/2016 |
| Chloroprene | 20.0 | | **42.2** | 50.00 | 0 | 84.3 | 80.6 | 126 | 01/12/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 78.2 | 116 | 01/12/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 83 | 119 | 01/12/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **44.4** | 50.00 | 0 | 88.7 | 60.7 | 137 | 01/12/2016 |
| Cyclohexanone | 50.0 | | **409** | 500.0 | 0 | 81.7 | 54.2 | 145 | 01/12/2016 |
| Dibromochloromethane | 5.0 | | **52.5** | 50.00 | 0 | 105.1 | 81.2 | 121 | 01/12/2016 |
| Dibromomethane | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 78.3 | 118 | 01/12/2016 |
| Dichlorodifluoromethane | 10.0 | | **37.3** | 50.00 | 0 | 74.6 | 20.6 | 154 | 01/12/2016 |
| Diisopropyl ether | 2.0 | | **49.3** | 50.00 | 0 | 98.5 | 73.1 | 116 | 01/12/2016 |
| Ethyl acetate | 10.0 | | **43.4** | 50.00 | 0 | 86.8 | 73.1 | 116 | 01/12/2016 |
| Ethyl ether | 5.0 | | **44.4** | 50.00 | 0 | 88.8 | 75.2 | 109 | 01/12/2016 |
| Ethyl methacrylate | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 80.1 | 113 | 01/12/2016 |
| Ethylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 77.2 | 113 | 01/12/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **47.9** | 50.00 | 0 | 95.7 | 75 | 118 | 01/12/2016 |
| Hexachlorobutadiene | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 77.3 | 123 | 01/12/2016 |
| Hexachloroethane | 10.0 | | **50.1** | 50.00 | 0 | 100.2 | 74.6 | 117 | 01/12/2016 |
| Iodomethane | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 61.3 | 140 | 01/12/2016 |
| Isopropylbenzene | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 81.3 | 114 | 01/12/2016 |
| m,p-Xylenes | 5.0 | | **100** | 100.0 | 0 | 100.0 | 79.6 | 113 | 01/12/2016 |
| Methacrylonitrile | 10.0 | | **44.4** | 50.00 | 0 | 88.8 | 77.2 | 125 | 01/12/2016 |
| Methyl Methacrylate | 5.0 | | **49.4** | 50.00 | 0 | 98.9 | 74.2 | 121 | 01/12/2016 |
| Methyl tert-butyl ether | 2.0 | | **47.9** | 50.00 | 0 | 95.7 | 76.8 | 117 | 01/12/2016 |
| Methylacrylate | 10.0 | | **47.0** | 50.00 | 0 | 94.1 | 78 | 124 | 01/12/2016 |
| Methylene chloride | 5.0 | | **44.7** | 50.00 | 0 | 89.5 | 74.1 | 114 | 01/12/2016 |
| Naphthalene | 10.0 | | **52.0** | 50.00 | 0 | 104.0 | 77.9 | 122 | 01/12/2016 |
| n-Butyl acetate | 25.0 | | **45.7** | 50.00 | 0 | 91.4 | 74 | 120 | 01/12/2016 |
| n-Butylbenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 71.1 | 120 | 01/12/2016 |
| n-Heptane | 20.0 | | **47.5** | 50.00 | 0 | 95.0 | 67.4 | 129 | 01/12/2016 |
| n-Hexane | 20.0 | | **45.8** | 50.00 | 0 | 91.7 | 68.4 | 126 | 01/12/2016 |
| Nitrobenzene | 50.0 | | **408** | 500.0 | 0 | 81.6 | 37.9 | 181 | 01/12/2016 |
| n-Propylbenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 74.6 | 118 | 01/12/2016 |
| o-Xylene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 80.1 | 111 | 01/12/2016 |
| Pentachloroethane | 20.0 | | **52.1** | 50.00 | 0 | 104.1 | 78.8 | 117 | 01/12/2016 |
| p-Isopropyltoluene | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 77.6 | 118 | 01/12/2016 |
| Propionitrile | 50.0 | | **450** | 500.0 | 0 | 90.1 | 72.9 | 137 | 01/12/2016 |
| sec-Butylbenzene | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 74.5 | 119 | 01/12/2016 |
| Styrene | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 83.4 | 113 | 01/12/2016 |
| tert-Amyl methyl ether | 2.0 | | **51.4** | 50.00 | 0 | 102.7 | 78.7 | 117 | 01/12/2016 |
| tert-Butyl alcohol | 25.0 | | **208** | 250.0 | 0 | 83.4 | 58.1 | 139 | 01/12/2016 |
| tert-Butylbenzene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 75.9 | 114 | 01/12/2016 |
| Tetrachloroethene | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 72.5 | 125 | 01/12/2016 |
| Tetrahydrofuran | 20.0 | | **43.5** | 50.00 | 0 | 87.1 | 69.6 | 125 | 01/12/2016 |
| Toluene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 77.5 | 113 | 01/12/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **45.2** | 50.00 | 0 | 90.5 | 79 | 114 | 01/12/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 78 | 115 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115558 **SampType:** LCS Units µg/L

SampID: LCS-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **49.0** | 50.00 | 0 | 98.0 | 63.3 | 128 | 01/12/2016 |
| Trichloroethene | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 84.4 | 114 | 01/12/2016 |
| Trichlorofluoromethane | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 75.2 | 132 | 01/12/2016 |
| Vinyl acetate | 10.0 | | **48.1** | 50.00 | 0 | 96.3 | 64.5 | 127 | 01/12/2016 |
| Vinyl chloride | 2.0 | | **45.7** | 50.00 | 0 | 91.4 | 58 | 134 | 01/12/2016 |
| Xylenes, Total | 5.0 | | **151** | 150.0 | 0 | 100.6 | 80.1 | 111 | 01/12/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **92.1** | 100.0 | 0 | 92.1 | 78.2 | 116 | 01/12/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **104** | 100.0 | 0 | 104.2 | 78 | 119 | 01/12/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **93.4** | 100.0 | 0 | 93.4 | 60.7 | 137 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.0** | 50.00 | | 96.0 | 74.7 | 129 | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.1** | 50.00 | | 98.2 | 86 | 119 | 01/12/2016 |
| Surr: Toluene-d8 | | | **48.6** | 50.00 | | 97.1 | 84.1 | 114 | 01/12/2016 |

**Batch** 115558 **SampType:** LCSGD Units µg/L RPD Limit **20**

SampID: LCSGD-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1980** | 2000 | 0 | 99.1 | 2012 | 1.45 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **46.8** | 50.00 | | 93.7 | | | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.2** | 50.00 | | 100.5 | | | 01/12/2016 |
| Surr: Toluene-d8 | | | **48.8** | 50.00 | | 97.5 | | | 01/12/2016 |

**Batch** 115558 **SampType:** LCSG Units µg/L

SampID: LCSG-N160112-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2010** | 2000 | 0 | 100.6 | 70 | 130 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **46.6** | 50.00 | | 93.2 | 74.7 | 129 | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.0** | 50.00 | | 100.0 | 86 | 119 | 01/12/2016 |
| Surr: Toluene-d8 | | | **49.8** | 50.00 | | 99.7 | 84.3 | 114 | 01/12/2016 |

**Batch** 115558 **SampType:** MS Units µg/L

SampID: 16010555-001AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 20.0 | | **545** | 500.0 | 73.10 | 94.4 | 62.5 | 121 | 01/13/2016 |
| Ethylbenzene | 50.0 | | **710** | 500.0 | 191.6 | 103.6 | 74.4 | 130 | 01/13/2016 |
| m,p-Xylenes | 50.0 | | **1440** | 500.0 | 918.4 | 105.2 | 70.5 | 126 | 01/13/2016 |
| o-Xylene | 50.0 | | **1000** | 500.0 | 460.8 | 108.3 | 71.2 | 124 | 01/13/2016 |
| Toluene | 50.0 | | **902** | 500.0 | 418.8 | 96.7 | 69.5 | 118 | 01/13/2016 |
| Xylenes, Total | 50.0 | | **2450** | 1000 | 1379 | 106.8 | 71.1 | 125 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **421** | 500.0 | | 84.3 | 74.7 | 129 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **513** | 500.0 | | 102.6 | 86 | 119 | 01/13/2016 |
| Surr: Toluene-d8 | | | **472** | 500.0 | | 94.5 | 84.3 | 114 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115558** **SampType:** **MSD** Units **µg/L** RPD Limit **20**

SampID: 16010555-001AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 20.0 | | **542** | 500.0 | 73.10 | 93.8 | 544.9 | 0.48 | 01/13/2016 |
| Ethylbenzene | 50.0 | | **692** | 500.0 | 191.6 | 100.0 | 709.7 | 2.55 | 01/13/2016 |
| m,p-Xylenes | 50.0 | | **1470** | 500.0 | 918.4 | 109.5 | 1444 | 1.48 | 01/13/2016 |
| o-Xylene | 50.0 | | **1010** | 500.0 | 460.8 | 109.0 | 1002 | 0.33 | 01/13/2016 |
| Toluene | 50.0 | | **895** | 500.0 | 418.8 | 95.3 | 902.5 | 0.81 | 01/13/2016 |
| Xylenes, Total | 50.0 | | **2470** | 1000 | 1379 | 109.3 | 2447 | 1.01 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **503** | 500.0 | | 100.6 | | | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **498** | 500.0 | | 99.5 | | | 01/13/2016 |
| Surr: Toluene-d8 | | | **485** | 500.0 | | 97.0 | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115550** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Acetone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Acetonitrile | 100 | | **ND** | | | | | | 01/12/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/12/2016 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Benzene | 1.0 | | **ND** | | | | | | 01/12/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Chloroform | 5.0 | | **ND** | | | | | | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115550** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/12/2016 |
| Cyclohexanone | 100 | | **ND** | | | | | | 01/12/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Iodomethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/12/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Methylene chloride | 5.0 | J | **1.2** | | | | | | 01/12/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/12/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/12/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/12/2016 |
| Nitrobenzene | 100 | | **ND** | | | | | | 01/12/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/12/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 01/12/2016 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 01/12/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/12/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115550** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/12/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.2** | 50.00 | | 100.4 | 72.2 | 131 | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.2** | 50.00 | | 100.4 | 82.1 | 116 | 01/12/2016 |
| Surr: Toluene-d8 | | | **49.5** | 50.00 | | 99.1 | 86 | 116 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115550** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 83.1 | 114 | 01/12/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 78.5 | 119 | 01/12/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.2** | 50.00 | 0 | 96.3 | 67.4 | 120 | 01/12/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **54.5** | 50.00 | 0 | 108.9 | 75.4 | 121 | 01/12/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 81.1 | 111 | 01/12/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **113** | 125.0 | 0 | 90.4 | 55.4 | 131 | 01/12/2016 |
| 1,1-Dichloroethane | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 80.1 | 116 | 01/12/2016 |
| 1,1-Dichloroethene | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 73.1 | 121 | 01/12/2016 |
| 1,1-Dichloropropene | 5.0 | | **52.1** | 50.00 | 0 | 104.1 | 82.2 | 114 | 01/12/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **54.9** | 50.00 | 0 | 109.7 | 81.7 | 130 | 01/12/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **47.6** | 50.00 | 0 | 95.2 | 67.8 | 118 | 01/12/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **47.7** | 50.00 | 0 | 95.5 | 82.1 | 127 | 01/12/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **56.8** | 50.00 | 0 | 113.7 | 72.3 | 141 | 01/12/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 79.7 | 123 | 01/12/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **45.6** | 50.00 | 0 | 91.1 | 62.1 | 123 | 01/12/2016 |
| 1,2-Dibromoethane | 5.0 | | **47.1** | 50.00 | 0 | 94.1 | 82.4 | 112 | 01/12/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 82.7 | 119 | 01/12/2016 |
| 1,2-Dichloroethane | 5.0 | | **48.5** | 50.00 | 0 | 96.9 | 72.8 | 120 | 01/12/2016 |
| 1,2-Dichloropropane | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 80 | 116 | 01/12/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.3 | 81.5 | 125 | 01/12/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 82 | 124 | 01/12/2016 |
| 1,3-Dichloropropane | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 79.8 | 113 | 01/12/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.5 | 81.1 | 124 | 01/12/2016 |
| 1-Chlorobutane | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 77.2 | 113 | 01/12/2016 |
| 2,2-Dichloropropane | 5.0 | | **51.5** | 50.00 | 0 | 102.9 | 76.6 | 121 | 01/12/2016 |
| 2-Butanone | 50.0 | | **103** | 125.0 | 0 | 82.6 | 62.8 | 131 | 01/12/2016 |
| 2-Chlorotoluene | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 78.8 | 121 | 01/12/2016 |
| 2-Hexanone | 50.0 | | **97.8** | 125.0 | 0 | 78.2 | 63.1 | 125 | 01/12/2016 |
| 2-Nitropropane | 50.0 | | **500** | 500.0 | 0 | 99.9 | 61.2 | 129 | 01/12/2016 |
| 4-Chlorotoluene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 77.6 | 124 | 01/12/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **114** | 125.0 | 0 | 91.4 | 60.6 | 126 | 01/12/2016 |
| Acetone | 50.0 | | **117** | 125.0 | 0 | 93.6 | 39.5 | 159 | 01/12/2016 |
| Acetonitrile | 100 | | **493** | 500.0 | 0 | 98.7 | 64.8 | 123 | 01/12/2016 |
| Acrolein | 100 | | **483** | 500.0 | 0 | 96.6 | 1 | 167 | 01/12/2016 |
| Acrylonitrile | 10.0 | | **47.5** | 50.00 | 0 | 95.1 | 67 | 124 | 01/12/2016 |
| Allyl chloride | 5.0 | | **46.5** | 50.00 | 0 | 93.1 | 58.5 | 129 | 01/12/2016 |
| Benzene | 1.0 | | **51.1** | 50.00 | 0 | 102.3 | 80.8 | 117 | 01/12/2016 |
| Bromobenzene | 5.0 | | **48.9** | 50.00 | 0 | 97.7 | 79.6 | 117 | 01/12/2016 |
| Bromochloromethane | 5.0 | | **47.7** | 50.00 | 0 | 95.4 | 70.7 | 121 | 01/12/2016 |
| Bromodichloromethane | 5.0 | | **49.0** | 50.00 | 0 | 97.9 | 80.7 | 121 | 01/12/2016 |
| Bromoform | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 79.8 | 118 | 01/12/2016 |
| Bromomethane | 10.0 | | **52.2** | 50.00 | 0 | 104.3 | 1 | 175 | 01/12/2016 |
| Carbon disulfide | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 62.8 | 123 | 01/12/2016 |
| Carbon tetrachloride | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 77.6 | 123 | 01/12/2016 |
| Chlorobenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 85.6 | 116 | 01/12/2016 |
| Chloroethane | 10.0 | | **48.9** | 50.00 | 0 | 97.8 | 60.2 | 125 | 01/12/2016 |
| Chloroform | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 77.9 | 116 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115550** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **40.7** | 50.00 | 0 | 81.4 | 29.9 | 157 | 01/12/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 80.1 | 116 | 01/12/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **50.3** | 50.00 | 0 | 100.7 | 80.5 | 121 | 01/12/2016 |
| Cyclohexanone | 100 | | **453** | 500.0 | 0 | 90.6 | 45.4 | 128 | 01/12/2016 |
| Dibromochloromethane | 5.0 | | **50.7** | 50.00 | 0 | 101.3 | 84.3 | 116 | 01/12/2016 |
| Dibromomethane | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 76.6 | 115 | 01/12/2016 |
| Dichlorodifluoromethane | 10.0 | | **38.9** | 50.00 | 0 | 77.8 | 1 | 200 | 01/12/2016 |
| Diisopropyl ether | 5.0 | | **43.9** | 50.00 | 0 | 87.8 | 73.6 | 119 | 01/12/2016 |
| Ethyl ether | 5.0 | | **45.6** | 50.00 | 0 | 91.3 | 73.4 | 116 | 01/12/2016 |
| Ethyl methacrylate | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 76.2 | 120 | 01/12/2016 |
| Ethylbenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 84.8 | 116 | 01/12/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **44.5** | 50.00 | 0 | 89.0 | 73.8 | 119 | 01/12/2016 |
| Hexachlorobutadiene | 5.0 | | **56.2** | 50.00 | 0 | 112.3 | 74 | 135 | 01/12/2016 |
| Hexachloroethane | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 76.4 | 121 | 01/12/2016 |
| Iodomethane | 10.0 | | **61.2** | 50.00 | 0 | 122.5 | 38.7 | 161 | 01/12/2016 |
| Isopropylbenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 85 | 125 | 01/12/2016 |
| m,p-Xylenes | 5.0 | | **105** | 100.0 | 0 | 105.3 | 85.3 | 120 | 01/12/2016 |
| Methacrylonitrile | 50.0 | J | **47** | 50.00 | 0 | 93.5 | 65.7 | 120 | 01/12/2016 |
| Methyl Methacrylate | 5.0 | | **45.4** | 50.00 | 0 | 90.7 | 69.1 | 114 | 01/12/2016 |
| Methyl tert-butyl ether | 2.0 | | **45.7** | 50.00 | 0 | 91.3 | 66.6 | 125 | 01/12/2016 |
| Methylacrylate | 10.0 | | **50.9** | 50.00 | 0 | 101.9 | 69.7 | 121 | 01/12/2016 |
| Methylene chloride | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 73.4 | 115 | 01/12/2016 |
| Naphthalene | 10.0 | | **49.8** | 50.00 | 0 | 99.6 | 70.1 | 134 | 01/12/2016 |
| n-Butylbenzene | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 78.4 | 138 | 01/12/2016 |
| n-Heptane | 20.0 | | **51.6** | 50.00 | 0 | 103.3 | 74.3 | 125 | 01/12/2016 |
| n-Hexane | 20.0 | | **53.2** | 50.00 | 0 | 106.3 | 66.3 | 129 | 01/12/2016 |
| Nitrobenzene | 100 | | **467** | 500.0 | 0 | 93.3 | 20.1 | 165 | 01/12/2016 |
| n-Propylbenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 79.1 | 125 | 01/12/2016 |
| o-Xylene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 81.9 | 118 | 01/12/2016 |
| Pentachloroethane | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 72.7 | 123 | 01/12/2016 |
| p-Isopropyltoluene | 5.0 | | **51.7** | 50.00 | 0 | 103.5 | 82.7 | 129 | 01/12/2016 |
| Propionitrile | 50.0 | | **504** | 500.0 | 0 | 100.8 | 64.3 | 121 | 01/12/2016 |
| sec-Butylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.3 | 81.3 | 125 | 01/12/2016 |
| Styrene | 5.0 | | **52.5** | 50.00 | 0 | 105.1 | 88.2 | 122 | 01/12/2016 |
| tert-Amyl methyl ether | 5.0 | | **46.0** | 50.00 | 0 | 91.9 | 74.5 | 120 | 01/12/2016 |
| tert-Butyl alcohol | 50.0 | | **236** | 250.0 | 0 | 94.2 | 51.3 | 129 | 01/12/2016 |
| tert-Butylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 74.8 | 125 | 01/12/2016 |
| Tetrachloroethene | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 84.2 | 122 | 01/12/2016 |
| Tetrahydrofuran | 50.0 | J | **46** | 50.00 | 0 | 92.3 | 61 | 118 | 01/12/2016 |
| Toluene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 81.3 | 113 | 01/12/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 78.2 | 118 | 01/12/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **48.8** | 50.00 | 0 | 97.5 | 81.7 | 124 | 01/12/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **47.5** | 50.00 | 0 | 94.9 | 63.9 | 117 | 01/12/2016 |
| Trichloroethene | 5.0 | | **53.1** | 50.00 | 0 | 106.1 | 81 | 123 | 01/12/2016 |
| Trichlorofluoromethane | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 66.8 | 131 | 01/12/2016 |
| Vinyl acetate | 50.0 | J | **47** | 50.00 | 0 | 93.5 | 64.3 | 122 | 01/12/2016 |
| Vinyl chloride | 2.0 | | **45.9** | 50.00 | 0 | 91.8 | 45.2 | 140 | 01/12/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010531
**Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115550** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **157** | 150.0 | 0 | 104.8 | 85.3 | 118 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.1** | 50.00 | | 96.3 | 72.2 | 131 | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **51.0** | 50.00 | | 102.1 | 82.1 | 116 | 01/12/2016 |
| Surr: Toluene-d8 | | | **47.4** | 50.00 | | 94.8 | 86 | 116 | 01/12/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010531
**Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115550** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 48.76 | 6.68 | 01/12/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 50.91 | 5.63 | 01/12/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 48.15 | 6.43 | 01/12/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **55.6** | 50.00 | 0 | 111.1 | 54.47 | 2.00 | 01/12/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 48.30 | 7.47 | 01/12/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **123** | 125.0 | 0 | 98.4 | 113.0 | 8.42 | 01/12/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 47.81 | 11.73 | 01/12/2016 |
| 1,1-Dichloroethene | 5.0 | | **53.1** | 50.00 | 0 | 106.3 | 50.75 | 4.58 | 01/12/2016 |
| 1,1-Dichloropropene | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 52.06 | 3.95 | 01/12/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **57.8** | 50.00 | 0 | 115.6 | 54.86 | 5.22 | 01/12/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **52.3** | 50.00 | 0 | 104.6 | 47.60 | 9.43 | 01/12/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 47.74 | 4.04 | 01/12/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **59.5** | 50.00 | 0 | 119.0 | 56.84 | 4.57 | 01/12/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **54.5** | 50.00 | 0 | 108.9 | 52.75 | 3.21 | 01/12/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 45.55 | 10.82 | 01/12/2016 |
| 1,2-Dibromoethane | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 47.07 | 7.15 | 01/12/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **54.6** | 50.00 | 0 | 109.1 | 52.13 | 4.57 | 01/12/2016 |
| 1,2-Dichloroethane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 48.46 | 6.28 | 01/12/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 48.88 | 5.39 | 01/12/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.0** | 50.00 | 0 | 103.9 | 50.65 | 2.53 | 01/12/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **55.4** | 50.00 | 0 | 110.8 | 53.72 | 3.10 | 01/12/2016 |
| 1,3-Dichloropropane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 47.42 | 7.51 | 01/12/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **55.6** | 50.00 | 0 | 111.1 | 53.74 | 3.31 | 01/12/2016 |
| 1-Chlorobutane | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 49.63 | 3.45 | 01/12/2016 |
| 2,2-Dichloropropane | 5.0 | | **53.5** | 50.00 | 0 | 106.9 | 51.47 | 3.79 | 01/12/2016 |
| 2-Butanone | 50.0 | | **116** | 125.0 | 0 | 92.5 | 103.3 | 11.22 | 01/12/2016 |
| 2-Chlorotoluene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 52.63 | 2.61 | 01/12/2016 |
| 2-Hexanone | 50.0 | | **110** | 125.0 | 0 | 88.4 | 97.77 | 12.20 | 01/12/2016 |
| 2-Nitropropane | 50.0 | | **560** | 500.0 | 0 | 112.0 | 499.7 | 11.41 | 01/12/2016 |
| 4-Chlorotoluene | 5.0 | | **54.1** | 50.00 | 0 | 108.3 | 52.88 | 2.35 | 01/12/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **129** | 125.0 | 0 | 103.0 | 114.3 | 11.87 | 01/12/2016 |
| Acetone | 50.0 | | **130** | 125.0 | 0 | 104.1 | 117.0 | 10.67 | 01/12/2016 |
| Acetonitrile | 100 | | **545** | 500.0 | 0 | 109.0 | 493.3 | 9.94 | 01/12/2016 |
| Acrolein | 100 | | **546** | 500.0 | 0 | 109.1 | 483.2 | 12.15 | 01/12/2016 |
| Acrylonitrile | 10.0 | | **53.1** | 50.00 | 0 | 106.2 | 47.53 | 11.09 | 01/12/2016 |
| Allyl chloride | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 46.54 | 7.51 | 01/12/2016 |
| Benzene | 1.0 | | **53.8** | 50.00 | 0 | 107.5 | 51.13 | 5.03 | 01/12/2016 |
| Bromobenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.3 | 48.86 | 3.60 | 01/12/2016 |
| Bromochloromethane | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 47.68 | 6.65 | 01/12/2016 |
| Bromodichloromethane | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 48.95 | 6.08 | 01/12/2016 |
| Bromoform | 5.0 | | **58.6** | 50.00 | 0 | 117.2 | 53.63 | 8.84 | 01/12/2016 |
| Bromomethane | 10.0 | | **53.6** | 50.00 | 0 | 107.1 | 52.17 | 2.61 | 01/12/2016 |
| Carbon disulfide | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 49.99 | 4.94 | 01/12/2016 |
| Carbon tetrachloride | 5.0 | | **55.1** | 50.00 | 0 | 110.2 | 52.34 | 5.14 | 01/12/2016 |
| Chlorobenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.5 | 51.76 | 3.75 | 01/12/2016 |
| Chloroethane | 10.0 | | **51.5** | 50.00 | 0 | 103.0 | 48.91 | 5.16 | 01/12/2016 |
| Chloroform | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 50.18 | 5.84 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115550** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **43.3** | 50.00 | 0 | 86.7 | 40.71 | 6.26 | 01/12/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **51.5** | 50.00 | 0 | 102.9 | 49.02 | 4.88 | 01/12/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **53.4** | 50.00 | 0 | 106.8 | 50.33 | 5.94 | 01/12/2016 |
| Cyclohexanone | 100 | | **487** | 500.0 | 0 | 97.3 | 453.2 | 7.10 | 01/12/2016 |
| Dibromochloromethane | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 50.67 | 6.46 | 01/12/2016 |
| Dibromomethane | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 49.60 | 7.14 | 01/12/2016 |
| Dichlorodifluoromethane | 10.0 | | **40.0** | 50.00 | 0 | 80.1 | 38.88 | 2.94 | 01/12/2016 |
| Diisopropyl ether | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 43.90 | 6.42 | 01/12/2016 |
| Ethyl ether | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 45.63 | 8.40 | 01/12/2016 |
| Ethyl methacrylate | 5.0 | | **52.7** | 50.00 | 0 | 105.3 | 47.90 | 9.47 | 01/12/2016 |
| Ethylbenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.1 | 49.09 | 4.85 | 01/12/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 44.48 | 8.34 | 01/12/2016 |
| Hexachlorobutadiene | 5.0 | | **58.2** | 50.00 | 0 | 116.5 | 56.16 | 3.62 | 01/12/2016 |
| Hexachloroethane | 5.0 | | **52.3** | 50.00 | 0 | 104.5 | 50.83 | 2.77 | 01/12/2016 |
| Iodomethane | 10.0 | | **64.5** | 50.00 | 0 | 129.0 | 61.25 | 5.15 | 01/12/2016 |
| Isopropylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 50.18 | 3.87 | 01/12/2016 |
| m,p-Xylenes | 5.0 | | **110** | 100.0 | 0 | 110.0 | 105.3 | 4.29 | 01/12/2016 |
| Methacrylonitrile | 50.0 | | **51.8** | 50.00 | 0 | 103.5 | 46.74 | 10.19 | 01/12/2016 |
| Methyl Methacrylate | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 45.36 | 12.10 | 01/12/2016 |
| Methyl tert-butyl ether | 2.0 | | **49.6** | 50.00 | 0 | 99.2 | 45.66 | 8.27 | 01/12/2016 |
| Methylacrylate | 10.0 | | **56.1** | 50.00 | 0 | 112.2 | 50.94 | 9.64 | 01/12/2016 |
| Methylene chloride | 5.0 | | **51.5** | 50.00 | 0 | 103.1 | 48.68 | 5.71 | 01/12/2016 |
| Naphthalene | 10.0 | | **54.5** | 50.00 | 0 | 109.0 | 49.79 | 9.03 | 01/12/2016 |
| n-Butylbenzene | 5.0 | | **55.7** | 50.00 | 0 | 111.3 | 54.48 | 2.16 | 01/12/2016 |
| n-Heptane | 20.0 | | **52.5** | 50.00 | 0 | 105.0 | 51.65 | 1.65 | 01/12/2016 |
| n-Hexane | 20.0 | | **54.7** | 50.00 | 0 | 109.3 | 53.16 | 2.80 | 01/12/2016 |
| Nitrobenzene | 100 | | **534** | 500.0 | 0 | 106.7 | 466.6 | 13.42 | 01/12/2016 |
| n-Propylbenzene | 5.0 | | **54.9** | 50.00 | 0 | 109.7 | 53.64 | 2.25 | 01/12/2016 |
| o-Xylene | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 51.89 | 4.06 | 01/12/2016 |
| Pentachloroethane | 5.0 | | **52.2** | 50.00 | 0 | 104.5 | 49.99 | 4.42 | 01/12/2016 |
| p-Isopropyltoluene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 51.74 | 1.32 | 01/12/2016 |
| Propionitrile | 50.0 | | **570** | 500.0 | 0 | 114.1 | 504.1 | 12.31 | 01/12/2016 |
| sec-Butylbenzene | 5.0 | | **51.9** | 50.00 | 0 | 103.9 | 50.67 | 2.48 | 01/12/2016 |
| Styrene | 5.0 | | **54.9** | 50.00 | 0 | 109.7 | 52.54 | 4.34 | 01/12/2016 |
| tert-Amyl methyl ether | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 45.97 | 8.44 | 01/12/2016 |
| tert-Butyl alcohol | 50.0 | | **274** | 250.0 | 0 | 109.5 | 235.5 | 15.05 | 01/12/2016 |
| tert-Butylbenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.3 | 52.18 | 3.69 | 01/12/2016 |
| Tetrachloroethene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 51.85 | 3.60 | 01/12/2016 |
| Tetrahydrofuran | 50.0 | | **50.8** | 50.00 | 0 | 101.5 | 46.17 | 9.45 | 01/12/2016 |
| Toluene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 49.92 | 3.39 | 01/12/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **53.1** | 50.00 | 0 | 106.3 | 50.29 | 5.49 | 01/12/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **52.4** | 50.00 | 0 | 104.7 | 48.75 | 7.12 | 01/12/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 47.46 | 5.79 | 01/12/2016 |
| Trichloroethene | 5.0 | | **55.5** | 50.00 | 0 | 111.1 | 53.06 | 4.57 | 01/12/2016 |
| Trichlorofluoromethane | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 51.43 | 3.40 | 01/12/2016 |
| Vinyl acetate | 50.0 | | **52.1** | 50.00 | 0 | 104.2 | 46.77 | 10.78 | 01/12/2016 |
| Vinyl chloride | 2.0 | | **48.6** | 50.00 | 0 | 97.1 | 45.92 | 5.59 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115550** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **164** | 150.0 | 0 | 109.3 | 157.2 | 4.22 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.4** | 50.00 | | 98.8 | | | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.4** | 50.00 | | 100.8 | | | 01/12/2016 |
| Surr: Toluene-d8 | | | **47.2** | 50.00 | | 94.4 | | | 01/12/2016 |

**Batch 115550** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2080** | 2000 | 0 | 104.2 | 70 | 130 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.9** | 50.00 | | 97.7 | 72.2 | 131 | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.7** | 50.00 | | 99.5 | 82.1 | 116 | 01/12/2016 |
| Surr: Toluene-d8 | | | **49.7** | 50.00 | | 99.4 | 86 | 116 | 01/12/2016 |

**Batch 115550** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2170** | 2000 | 0 | 108.5 | 2084 | 3.98 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.5** | 50.00 | | 99.1 | | | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.2** | 50.00 | | 98.5 | | | 01/12/2016 |
| Surr: Toluene-d8 | | | **49.4** | 50.00 | | 98.7 | | | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115552** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/12/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Acetone | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Acetonitrile | 100 | | **ND** | | | | | | 01/12/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/12/2016 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Benzene | 1.0 | | **ND** | | | | | | 01/12/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Chloroform | 5.0 | | **ND** | | | | | | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115552** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/12/2016 |
| Cyclohexanone | 100 | | **ND** | | | | | | 01/12/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Iodomethane | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/12/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/12/2016 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/12/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/12/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/12/2016 |
| Nitrobenzene | 100 | | **ND** | | | | | | 01/12/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/12/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 01/12/2016 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 01/12/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/12/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/12/2016 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 01/12/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115552** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/12/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.7** | 50.00 | | 95.5 | 72.2 | 131 | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **51.0** | 50.00 | | 101.9 | 82.1 | 116 | 01/12/2016 |
| Surr: Toluene-d8 | | | **50.0** | 50.00 | | 100.1 | 86 | 116 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115552** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **49.7** | 50.00 | 0 | 99.5 | 49.11 | 1.25 | 01/12/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 54.26 | 0.91 | 01/12/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 48.22 | 1.36 | 01/12/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **55.1** | 50.00 | 0 | 110.2 | 55.37 | 0.51 | 01/12/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 50.25 | 3.06 | 01/12/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **128** | 125.0 | 0 | 102.4 | 126.7 | 1.01 | 01/12/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 53.46 | 0.06 | 01/12/2016 |
| 1,1-Dichloroethene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 53.55 | 0.32 | 01/12/2016 |
| 1,1-Dichloropropene | 5.0 | | **55.4** | 50.00 | 0 | 110.8 | 55.12 | 0.52 | 01/12/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **51.1** | 50.00 | 0 | 102.1 | 51.65 | 1.13 | 01/12/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **48.1** | 50.00 | 0 | 96.1 | 46.87 | 2.53 | 01/12/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 49.85 | 1.47 | 01/12/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **53.5** | 50.00 | 0 | 106.9 | 53.72 | 0.49 | 01/12/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **54.0** | 50.00 | 0 | 107.9 | 53.13 | 1.53 | 01/12/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 48.81 | 1.90 | 01/12/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 47.99 | 2.27 | 01/12/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 51.84 | 1.19 | 01/12/2016 |
| 1,2-Dichloroethane | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 52.16 | 0.84 | 01/12/2016 |
| 1,2-Dichloropropane | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 52.32 | 1.08 | 01/12/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 53.18 | 1.57 | 01/12/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **53.9** | 50.00 | 0 | 107.9 | 52.96 | 1.83 | 01/12/2016 |
| 1,3-Dichloropropane | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 50.09 | 1.72 | 01/12/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 53.36 | 0.60 | 01/12/2016 |
| 1-Chlorobutane | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 52.14 | 0.65 | 01/12/2016 |
| 2,2-Dichloropropane | 5.0 | | **54.5** | 50.00 | 0 | 109.1 | 54.78 | 0.44 | 01/12/2016 |
| 2-Butanone | 50.0 | | **140** | 125.0 | 0 | 111.6 | 137.3 | 1.65 | 01/12/2016 |
| 2-Chlorotoluene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 52.13 | 1.22 | 01/12/2016 |
| 2-Hexanone | 50.0 | | **132** | 125.0 | 0 | 105.4 | 130.8 | 0.72 | 01/12/2016 |
| 2-Nitropropane | 50.0 | | **512** | 500.0 | 0 | 102.4 | 508.8 | 0.59 | 01/12/2016 |
| 4-Chlorotoluene | 5.0 | | **53.5** | 50.00 | 0 | 107.1 | 52.94 | 1.13 | 01/12/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **127** | 125.0 | 0 | 101.2 | 124.2 | 1.83 | 01/12/2016 |
| Acetone | 50.0 | | **146** | 125.0 | 0 | 117.0 | 143.0 | 2.23 | 01/12/2016 |
| Acetonitrile | 100 | | **485** | 500.0 | 0 | 97.0 | 476.4 | 1.76 | 01/12/2016 |
| Acrolein | 100 | | **526** | 500.0 | 0 | 105.2 | 503.9 | 4.27 | 01/12/2016 |
| Acrylonitrile | 10.0 | | **51.7** | 50.00 | 0 | 103.4 | 51.92 | 0.42 | 01/12/2016 |
| Allyl chloride | 5.0 | | **55.7** | 50.00 | 0 | 111.4 | 55.35 | 0.65 | 01/12/2016 |
| Benzene | 1.0 | | **54.2** | 50.00 | 0 | 108.3 | 53.12 | 1.94 | 01/12/2016 |
| Bromobenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.7 | 49.82 | 2.07 | 01/12/2016 |
| Bromochloromethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 50.52 | 1.16 | 01/12/2016 |
| Bromodichloromethane | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 52.70 | 0.77 | 01/12/2016 |
| Bromoform | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 51.15 | 1.09 | 01/12/2016 |
| Bromomethane | 10.0 | | **66.8** | 50.00 | 0 | 133.6 | 69.07 | 3.31 | 01/12/2016 |
| Carbon disulfide | 5.0 | | **54.3** | 50.00 | 0 | 108.7 | 54.45 | 0.22 | 01/12/2016 |
| Carbon tetrachloride | 5.0 | | **53.2** | 50.00 | 0 | 106.3 | 53.01 | 0.28 | 01/12/2016 |
| Chlorobenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 51.34 | 0.80 | 01/12/2016 |
| Chloroethane | 10.0 | | **52.6** | 50.00 | 0 | 105.3 | 52.09 | 1.03 | 01/12/2016 |
| Chloroform | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 52.64 | 0.59 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115552** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **53.3** | 50.00 | 0 | 106.6 | 53.39 | 0.17 | 01/12/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 51.32 | 1.14 | 01/12/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **54.2** | 50.00 | 0 | 108.4 | 54.34 | 0.26 | 01/12/2016 |
| Cyclohexanone | 100 | | **484** | 500.0 | 0 | 96.8 | 468.2 | 3.34 | 01/12/2016 |
| Dibromochloromethane | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 50.22 | 3.46 | 01/12/2016 |
| Dibromomethane | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 51.09 | 2.40 | 01/12/2016 |
| Dichlorodifluoromethane | 10.0 | | **75.6** | 50.00 | 0 | 151.1 | 75.38 | 0.23 | 01/12/2016 |
| Diisopropyl ether | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 52.41 | 0.40 | 01/12/2016 |
| Ethyl ether | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 49.21 | 0.75 | 01/12/2016 |
| Ethyl methacrylate | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 50.37 | 2.78 | 01/12/2016 |
| Ethylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 50.92 | 1.71 | 01/12/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 51.44 | 1.06 | 01/12/2016 |
| Hexachlorobutadiene | 5.0 | | **53.7** | 50.00 | 0 | 107.5 | 54.51 | 1.42 | 01/12/2016 |
| Hexachloroethane | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 52.84 | 2.60 | 01/12/2016 |
| Iodomethane | 10.0 | | **45.7** | 50.00 | 0 | 91.4 | 46.28 | 1.26 | 01/12/2016 |
| Isopropylbenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 53.27 | 1.58 | 01/12/2016 |
| m,p-Xylenes | 5.0 | | **106** | 100.0 | 0 | 106.0 | 105.4 | 0.61 | 01/12/2016 |
| Methacrylonitrile | 50.0 | | **51.7** | 50.00 | 0 | 103.5 | 50.59 | 2.25 | 01/12/2016 |
| Methyl Methacrylate | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 50.01 | 0.34 | 01/12/2016 |
| Methyl tert-butyl ether | 2.0 | | **53.3** | 50.00 | 0 | 106.6 | 52.69 | 1.17 | 01/12/2016 |
| Methylacrylate | 10.0 | | **53.6** | 50.00 | 0 | 107.3 | 53.46 | 0.32 | 01/12/2016 |
| Methylene chloride | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 51.61 | 0.02 | 01/12/2016 |
| Naphthalene | 10.0 | | **48.8** | 50.00 | 0 | 97.6 | 48.25 | 1.17 | 01/12/2016 |
| n-Butylbenzene | 5.0 | | **55.9** | 50.00 | 0 | 111.8 | 55.42 | 0.86 | 01/12/2016 |
| n-Heptane | 20.0 | | **52.1** | 50.00 | 0 | 104.3 | 54.51 | 4.46 | 01/12/2016 |
| n-Hexane | 20.0 | | **55.2** | 50.00 | 0 | 110.3 | 56.57 | 2.52 | 01/12/2016 |
| Nitrobenzene | 100 | | **454** | 500.0 | 0 | 90.9 | 452.4 | 0.42 | 01/12/2016 |
| n-Propylbenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 53.21 | 0.34 | 01/12/2016 |
| o-Xylene | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 52.17 | 1.18 | 01/12/2016 |
| Pentachloroethane | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 53.19 | 6.38 | 01/12/2016 |
| p-Isopropyltoluene | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 53.54 | 0.52 | 01/12/2016 |
| Propionitrile | 50.0 | | **526** | 500.0 | 0 | 105.1 | 507.5 | 3.52 | 01/12/2016 |
| sec-Butylbenzene | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 53.03 | 1.48 | 01/12/2016 |
| Styrene | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 50.79 | 1.12 | 01/12/2016 |
| tert-Amyl methyl ether | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 51.98 | 0.84 | 01/12/2016 |
| tert-Butyl alcohol | 50.0 | | **239** | 250.0 | 0 | 95.5 | 240.4 | 0.72 | 01/12/2016 |
| tert-Butylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.5 | 52.89 | 1.24 | 01/12/2016 |
| Tetrachloroethene | 5.0 | | **52.6** | 50.00 | 0 | 105.1 | 49.36 | 6.26 | 01/12/2016 |
| Tetrahydrofuran | 50.0 | J | **48** | 50.00 | 0 | 95.1 | 47.30 | 0.00 | 01/12/2016 |
| Toluene | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 52.72 | 1.49 | 01/12/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 53.39 | 1.43 | 01/12/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **53.4** | 50.00 | 0 | 106.9 | 52.78 | 1.26 | 01/12/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 50.48 | 2.27 | 01/12/2016 |
| Trichloroethene | 5.0 | | **54.7** | 50.00 | 0 | 109.5 | 54.46 | 0.51 | 01/12/2016 |
| Trichlorofluoromethane | 5.0 | | **64.9** | 50.00 | 0 | 129.8 | 65.65 | 1.15 | 01/12/2016 |
| Vinyl acetate | 50.0 | | **52.8** | 50.00 | 0 | 105.7 | 58.00 | 9.31 | 01/12/2016 |
| Vinyl chloride | 2.0 | | **61.0** | 50.00 | 0 | 122.1 | 59.07 | 3.26 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115552** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **159** | 150.0 | 0 | 105.9 | 157.5 | 0.80 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **51.4** | 50.00 | | 102.8 | | | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.8** | 50.00 | | 99.6 | | | 01/12/2016 |
| Surr: Toluene-d8 | | | **49.6** | 50.00 | | 99.3 | | | 01/12/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010531
**Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115552** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 83.1 | 114 | 01/12/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **54.3** | 50.00 | 0 | 108.5 | 78.5 | 119 | 01/12/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 67.4 | 120 | 01/12/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **55.4** | 50.00 | 0 | 110.7 | 75.4 | 121 | 01/12/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 81.1 | 111 | 01/12/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **127** | 125.0 | 0 | 101.4 | 55.4 | 131 | 01/12/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.5** | 50.00 | 0 | 106.9 | 80.1 | 116 | 01/12/2016 |
| 1,1-Dichloroethene | 5.0 | | **53.6** | 50.00 | 0 | 107.1 | 73.1 | 121 | 01/12/2016 |
| 1,1-Dichloropropene | 5.0 | | **55.1** | 50.00 | 0 | 110.2 | 82.2 | 114 | 01/12/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 81.7 | 130 | 01/12/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **46.9** | 50.00 | 0 | 93.7 | 67.8 | 118 | 01/12/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 82.1 | 127 | 01/12/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 72.3 | 141 | 01/12/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **53.1** | 50.00 | 0 | 106.3 | 79.7 | 123 | 01/12/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 62.1 | 123 | 01/12/2016 |
| 1,2-Dibromoethane | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 82.4 | 112 | 01/12/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 82.7 | 119 | 01/12/2016 |
| 1,2-Dichloroethane | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 72.8 | 120 | 01/12/2016 |
| 1,2-Dichloropropane | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 80 | 116 | 01/12/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 81.5 | 125 | 01/12/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 82 | 124 | 01/12/2016 |
| 1,3-Dichloropropane | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 79.8 | 113 | 01/12/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.7 | 81.1 | 124 | 01/12/2016 |
| 1-Chlorobutane | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 77.2 | 113 | 01/12/2016 |
| 2,2-Dichloropropane | 5.0 | | **54.8** | 50.00 | 0 | 109.6 | 76.6 | 121 | 01/12/2016 |
| 2-Butanone | 50.0 | | **137** | 125.0 | 0 | 109.8 | 62.8 | 131 | 01/12/2016 |
| 2-Chlorotoluene | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 78.8 | 121 | 01/12/2016 |
| 2-Hexanone | 50.0 | | **131** | 125.0 | 0 | 104.6 | 63.1 | 125 | 01/12/2016 |
| 2-Nitropropane | 50.0 | | **509** | 500.0 | 0 | 101.8 | 61.2 | 129 | 01/12/2016 |
| 4-Chlorotoluene | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 77.6 | 124 | 01/12/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **124** | 125.0 | 0 | 99.4 | 60.6 | 126 | 01/12/2016 |
| Acetone | 50.0 | | **143** | 125.0 | 0 | 114.4 | 39.5 | 159 | 01/12/2016 |
| Acetonitrile | 100 | | **476** | 500.0 | 0 | 95.3 | 64.8 | 123 | 01/12/2016 |
| Acrolein | 100 | | **504** | 500.0 | 0 | 100.8 | 1 | 167 | 01/12/2016 |
| Acrylonitrile | 10.0 | | **51.9** | 50.00 | 0 | 103.8 | 67 | 124 | 01/12/2016 |
| Allyl chloride | 5.0 | | **55.4** | 50.00 | 0 | 110.7 | 58.5 | 129 | 01/12/2016 |
| Benzene | 1.0 | | **53.1** | 50.00 | 0 | 106.2 | 80.8 | 117 | 01/12/2016 |
| Bromobenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 79.6 | 117 | 01/12/2016 |
| Bromochloromethane | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 70.7 | 121 | 01/12/2016 |
| Bromodichloromethane | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 80.7 | 121 | 01/12/2016 |
| Bromoform | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 79.8 | 118 | 01/12/2016 |
| Bromomethane | 10.0 | | **69.1** | 50.00 | 0 | 138.1 | 1 | 175 | 01/12/2016 |
| Carbon disulfide | 5.0 | | **54.4** | 50.00 | 0 | 108.9 | 62.8 | 123 | 01/12/2016 |
| Carbon tetrachloride | 5.0 | | **53.0** | 50.00 | 0 | 106.0 | 77.6 | 123 | 01/12/2016 |
| Chlorobenzene | 5.0 | | **51.3** | 50.00 | 0 | 102.7 | 85.6 | 116 | 01/12/2016 |
| Chloroethane | 10.0 | | **52.1** | 50.00 | 0 | 104.2 | 60.2 | 125 | 01/12/2016 |
| Chloroform | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 77.9 | 116 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115552** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **53.4** | 50.00 | 0 | 106.8 | 29.9 | 157 | 01/12/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 80.1 | 116 | 01/12/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **54.3** | 50.00 | 0 | 108.7 | 80.5 | 121 | 01/12/2016 |
| Cyclohexanone | 100 | | **468** | 500.0 | 0 | 93.6 | 45.4 | 128 | 01/12/2016 |
| Dibromochloromethane | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 84.3 | 116 | 01/12/2016 |
| Dibromomethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 76.6 | 115 | 01/12/2016 |
| Dichlorodifluoromethane | 10.0 | | **75.4** | 50.00 | 0 | 150.8 | 1 | 200 | 01/12/2016 |
| Diisopropyl ether | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 73.6 | 119 | 01/12/2016 |
| Ethyl ether | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 73.4 | 116 | 01/12/2016 |
| Ethyl methacrylate | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 76.2 | 120 | 01/12/2016 |
| Ethylbenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 84.8 | 116 | 01/12/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 73.8 | 119 | 01/12/2016 |
| Hexachlorobutadiene | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 74 | 135 | 01/12/2016 |
| Hexachloroethane | 5.0 | | **52.8** | 50.00 | 0 | 105.7 | 76.4 | 121 | 01/12/2016 |
| Iodomethane | 10.0 | | **46.3** | 50.00 | 0 | 92.6 | 38.7 | 161 | 01/12/2016 |
| Isopropylbenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 85 | 125 | 01/12/2016 |
| m,p-Xylenes | 5.0 | | **105** | 100.0 | 0 | 105.4 | 85.3 | 120 | 01/12/2016 |
| Methacrylonitrile | 50.0 | | **50.6** | 50.00 | 0 | 101.2 | 65.7 | 120 | 01/12/2016 |
| Methyl Methacrylate | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 69.1 | 114 | 01/12/2016 |
| Methyl tert-butyl ether | 2.0 | | **52.7** | 50.00 | 0 | 105.4 | 66.6 | 125 | 01/12/2016 |
| Methylacrylate | 10.0 | | **53.5** | 50.00 | 0 | 106.9 | 69.7 | 121 | 01/12/2016 |
| Methylene chloride | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 73.4 | 115 | 01/12/2016 |
| Naphthalene | 10.0 | | **48.2** | 50.00 | 0 | 96.5 | 70.1 | 134 | 01/12/2016 |
| n-Butylbenzene | 5.0 | | **55.4** | 50.00 | 0 | 110.8 | 78.4 | 138 | 01/12/2016 |
| n-Heptane | 20.0 | | **54.5** | 50.00 | 0 | 109.0 | 74.3 | 125 | 01/12/2016 |
| n-Hexane | 20.0 | | **56.6** | 50.00 | 0 | 113.1 | 66.3 | 129 | 01/12/2016 |
| Nitrobenzene | 100 | | **452** | 500.0 | 0 | 90.5 | 20.1 | 165 | 01/12/2016 |
| n-Propylbenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 79.1 | 125 | 01/12/2016 |
| o-Xylene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 81.9 | 118 | 01/12/2016 |
| Pentachloroethane | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 72.7 | 123 | 01/12/2016 |
| p-Isopropyltoluene | 5.0 | | **53.5** | 50.00 | 0 | 107.1 | 82.7 | 129 | 01/12/2016 |
| Propionitrile | 50.0 | | **508** | 500.0 | 0 | 101.5 | 64.3 | 121 | 01/12/2016 |
| sec-Butylbenzene | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 81.3 | 125 | 01/12/2016 |
| Styrene | 5.0 | | **50.8** | 50.00 | 0 | 101.6 | 88.2 | 122 | 01/12/2016 |
| tert-Amyl methyl ether | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 74.5 | 120 | 01/12/2016 |
| tert-Butyl alcohol | 50.0 | | **240** | 250.0 | 0 | 96.2 | 51.3 | 129 | 01/12/2016 |
| tert-Butylbenzene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 74.8 | 125 | 01/12/2016 |
| Tetrachloroethene | 5.0 | | **49.4** | 50.00 | 0 | 98.7 | 84.2 | 122 | 01/12/2016 |
| Tetrahydrofuran | 50.0 | J | **47** | 50.00 | 0 | 94.6 | 61 | 118 | 01/12/2016 |
| Toluene | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 81.3 | 113 | 01/12/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 78.2 | 118 | 01/12/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **52.8** | 50.00 | 0 | 105.6 | 81.7 | 124 | 01/12/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 63.9 | 117 | 01/12/2016 |
| Trichloroethene | 5.0 | | **54.5** | 50.00 | 0 | 108.9 | 81 | 123 | 01/12/2016 |
| Trichlorofluoromethane | 5.0 | S | **65.6** | 50.00 | 0 | 131.3 | 66.8 | 131 | 01/12/2016 |
| Vinyl acetate | 50.0 | | **58.0** | 50.00 | 0 | 116.0 | 64.3 | 122 | 01/12/2016 |
| Vinyl chloride | 2.0 | | **59.1** | 50.00 | 0 | 118.1 | 45.2 | 140 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115552 **SampType:** LCS Units **µg/Kg**

SampID: LCS-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **158** | 150.0 | 0 | 105.0 | 85.3 | 118 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **51.6** | 50.00 | | 103.3 | 72.2 | 131 | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.3** | 50.00 | | 98.7 | 82.1 | 116 | 01/12/2016 |
| Surr: Toluene-d8 | | | **49.7** | 50.00 | | 99.3 | 86 | 116 | 01/12/2016 |

**Batch** 115552 **SampType:** LCSGD Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2360** | 2000 | 0 | 118.2 | 2168 | 8.64 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.9** | 50.00 | | 97.9 | | | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **52.1** | 50.00 | | 104.2 | | | 01/12/2016 |
| Surr: Toluene-d8 | | | **51.8** | 50.00 | | 103.6 | | | 01/12/2016 |

**Batch** 115552 **SampType:** LCSG Units **µg/Kg**

SampID: LCSG-F160112A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2170** | 2000 | 0 | 108.4 | 70 | 130 | 01/12/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.7** | 50.00 | | 97.4 | 72.2 | 131 | 01/12/2016 |
| Surr: 4-Bromofluorobenzene | | | **51.0** | 50.00 | | 102.0 | 82.1 | 116 | 01/12/2016 |
| Surr: Toluene-d8 | | | **50.2** | 50.00 | | 100.4 | 86 | 116 | 01/12/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Acetone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Acetonitrile | 100 | | **ND** | | | | | | 01/13/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/13/2016 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Benzene | 1.0 | | **ND** | | | | | | 01/13/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Chloroform | 5.0 | | **ND** | | | | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/13/2016 |
| Cyclohexanone | 100 | | **ND** | | | | | | 01/13/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Iodomethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/13/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Methylene chloride | 5.0 | J | **1.0** | | | | | | 01/13/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/13/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/13/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/13/2016 |
| Nitrobenzene | 100 | | **ND** | | | | | | 01/13/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/13/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 01/13/2016 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 01/13/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/13/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/13/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.1** | 50.00 | | 100.1 | 72.2 | 131 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.8** | 50.00 | | 99.7 | 82.1 | 116 | 01/13/2016 |
| Surr: Toluene-d8 | | | **48.8** | 50.00 | | 97.5 | 86 | 116 | 01/13/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16010531

**Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 83.1 | 114 | 01/13/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **54.0** | 50.00 | 0 | 107.9 | 78.5 | 119 | 01/13/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.2** | 50.00 | 0 | 96.5 | 67.4 | 120 | 01/13/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **58.7** | 50.00 | 0 | 117.5 | 75.4 | 121 | 01/13/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 81.1 | 111 | 01/13/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **104** | 125.0 | 0 | 83.0 | 55.4 | 131 | 01/13/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 80.1 | 116 | 01/13/2016 |
| 1,1-Dichloroethene | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 73.1 | 121 | 01/13/2016 |
| 1,1-Dichloropropene | 5.0 | | **55.1** | 50.00 | 0 | 110.3 | 82.2 | 114 | 01/13/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **56.6** | 50.00 | 0 | 113.1 | 81.7 | 130 | 01/13/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **48.6** | 50.00 | 0 | 97.1 | 67.8 | 118 | 01/13/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.9 | 82.1 | 127 | 01/13/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **59.3** | 50.00 | 0 | 118.6 | 72.3 | 141 | 01/13/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **56.9** | 50.00 | 0 | 113.8 | 79.7 | 123 | 01/13/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **43.1** | 50.00 | 0 | 86.3 | 62.1 | 123 | 01/13/2016 |
| 1,2-Dibromoethane | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 82.4 | 112 | 01/13/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **54.8** | 50.00 | 0 | 109.5 | 82.7 | 119 | 01/13/2016 |
| 1,2-Dichloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 72.8 | 120 | 01/13/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.1** | 50.00 | 0 | 102.3 | 80 | 116 | 01/13/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **54.4** | 50.00 | 0 | 108.7 | 81.5 | 125 | 01/13/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **57.5** | 50.00 | 0 | 115.0 | 82 | 124 | 01/13/2016 |
| 1,3-Dichloropropane | 5.0 | | **49.0** | 50.00 | 0 | 97.9 | 79.8 | 113 | 01/13/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **56.4** | 50.00 | 0 | 112.8 | 81.1 | 124 | 01/13/2016 |
| 1-Chlorobutane | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 77.2 | 113 | 01/13/2016 |
| 2,2-Dichloropropane | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 76.6 | 121 | 01/13/2016 |
| 2-Butanone | 50.0 | | **99.7** | 125.0 | 0 | 79.8 | 62.8 | 131 | 01/13/2016 |
| 2-Chlorotoluene | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 78.8 | 121 | 01/13/2016 |
| 2-Hexanone | 50.0 | | **93.2** | 125.0 | 0 | 74.6 | 63.1 | 125 | 01/13/2016 |
| 2-Nitropropane | 50.0 | | **492** | 500.0 | 0 | 98.5 | 61.2 | 129 | 01/13/2016 |
| 4-Chlorotoluene | 5.0 | | **55.9** | 50.00 | 0 | 111.8 | 77.6 | 124 | 01/13/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **113** | 125.0 | 0 | 90.4 | 60.6 | 126 | 01/13/2016 |
| Acetone | 50.0 | | **110** | 125.0 | 0 | 88.1 | 39.5 | 159 | 01/13/2016 |
| Acetonitrile | 100 | | **489** | 500.0 | 0 | 97.8 | 64.8 | 123 | 01/13/2016 |
| Acrolein | 100 | | **457** | 500.0 | 0 | 91.4 | 1 | 167 | 01/13/2016 |
| Acrylonitrile | 10.0 | | **47.8** | 50.00 | 0 | 95.5 | 67 | 124 | 01/13/2016 |
| Allyl chloride | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 58.5 | 129 | 01/13/2016 |
| Benzene | 1.0 | | **53.9** | 50.00 | 0 | 107.8 | 80.8 | 117 | 01/13/2016 |
| Bromobenzene | 5.0 | | **51.0** | 50.00 | 0 | 102.1 | 79.6 | 117 | 01/13/2016 |
| Bromochloromethane | 5.0 | | **48.9** | 50.00 | 0 | 97.9 | 70.7 | 121 | 01/13/2016 |
| Bromodichloromethane | 5.0 | | **51.1** | 50.00 | 0 | 102.1 | 80.7 | 121 | 01/13/2016 |
| Bromoform | 5.0 | | **54.8** | 50.00 | 0 | 109.7 | 79.8 | 118 | 01/13/2016 |
| Bromomethane | 10.0 | | **55.5** | 50.00 | 0 | 110.9 | 1 | 175 | 01/13/2016 |
| Carbon disulfide | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 62.8 | 123 | 01/13/2016 |
| Carbon tetrachloride | 5.0 | | **56.0** | 50.00 | 0 | 112.1 | 77.6 | 123 | 01/13/2016 |
| Chlorobenzene | 5.0 | | **54.3** | 50.00 | 0 | 108.7 | 85.6 | 116 | 01/13/2016 |
| Chloroethane | 10.0 | | **53.0** | 50.00 | 0 | 106.0 | 60.2 | 125 | 01/13/2016 |
| Chloroform | 5.0 | | **53.2** | 50.00 | 0 | 106.3 | 77.9 | 116 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **44.7** | 50.00 | 0 | 89.4 | 29.9 | 157 | 01/13/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **51.1** | 50.00 | 0 | 102.3 | 80.1 | 116 | 01/13/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **52.7** | 50.00 | 0 | 105.4 | 80.5 | 121 | 01/13/2016 |
| Cyclohexanone | 100 | | **415** | 500.0 | 0 | 83.0 | 45.4 | 128 | 01/13/2016 |
| Dibromochloromethane | 5.0 | | **52.5** | 50.00 | 0 | 105.1 | 84.3 | 116 | 01/13/2016 |
| Dibromomethane | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 76.6 | 115 | 01/13/2016 |
| Dichlorodifluoromethane | 10.0 | | **45.8** | 50.00 | 0 | 91.6 | 1 | 200 | 01/13/2016 |
| Diisopropyl ether | 5.0 | | **46.6** | 50.00 | 0 | 93.1 | 73.6 | 119 | 01/13/2016 |
| Ethyl ether | 5.0 | | **48.1** | 50.00 | 0 | 96.1 | 73.4 | 116 | 01/13/2016 |
| Ethyl methacrylate | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 76.2 | 120 | 01/13/2016 |
| Ethylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 84.8 | 116 | 01/13/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **47.7** | 50.00 | 0 | 95.4 | 73.8 | 119 | 01/13/2016 |
| Hexachlorobutadiene | 5.0 | | **59.6** | 50.00 | 0 | 119.2 | 74 | 135 | 01/13/2016 |
| Hexachloroethane | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 76.4 | 121 | 01/13/2016 |
| Iodomethane | 10.0 | | **64.7** | 50.00 | 0 | 129.5 | 38.7 | 161 | 01/13/2016 |
| Isopropylbenzene | 5.0 | | **52.5** | 50.00 | 0 | 105.1 | 85 | 125 | 01/13/2016 |
| m,p-Xylenes | 5.0 | | **109** | 100.0 | 0 | 109.0 | 85.3 | 120 | 01/13/2016 |
| Methacrylonitrile | 50.0 | J | **46** | 50.00 | 0 | 92.9 | 65.7 | 120 | 01/13/2016 |
| Methyl Methacrylate | 5.0 | | **46.0** | 50.00 | 0 | 92.1 | 69.1 | 114 | 01/13/2016 |
| Methyl tert-butyl ether | 2.0 | | **48.0** | 50.00 | 0 | 95.9 | 66.6 | 125 | 01/13/2016 |
| Methylacrylate | 10.0 | | **50.4** | 50.00 | 0 | 100.9 | 69.7 | 121 | 01/13/2016 |
| Methylene chloride | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 73.4 | 115 | 01/13/2016 |
| Naphthalene | 10.0 | | **50.0** | 50.00 | 0 | 100.0 | 70.1 | 134 | 01/13/2016 |
| n-Butylbenzene | 5.0 | | **59.1** | 50.00 | 0 | 118.3 | 78.4 | 138 | 01/13/2016 |
| n-Heptane | 20.0 | | **56.1** | 50.00 | 0 | 112.2 | 74.3 | 125 | 01/13/2016 |
| n-Hexane | 20.0 | | **58.8** | 50.00 | 0 | 117.6 | 66.3 | 129 | 01/13/2016 |
| Nitrobenzene | 100 | | **436** | 500.0 | 0 | 87.1 | 20.1 | 165 | 01/13/2016 |
| n-Propylbenzene | 5.0 | | **57.2** | 50.00 | 0 | 114.4 | 79.1 | 125 | 01/13/2016 |
| o-Xylene | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 81.9 | 118 | 01/13/2016 |
| Pentachloroethane | 5.0 | | **56.6** | 50.00 | 0 | 113.2 | 72.7 | 123 | 01/13/2016 |
| p-Isopropyltoluene | 5.0 | | **55.9** | 50.00 | 0 | 111.8 | 82.7 | 129 | 01/13/2016 |
| Propionitrile | 50.0 | | **498** | 500.0 | 0 | 99.6 | 64.3 | 121 | 01/13/2016 |
| sec-Butylbenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 81.3 | 125 | 01/13/2016 |
| Styrene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 88.2 | 122 | 01/13/2016 |
| tert-Amyl methyl ether | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 74.5 | 120 | 01/13/2016 |
| tert-Butyl alcohol | 50.0 | | **233** | 250.0 | 0 | 93.2 | 51.3 | 129 | 01/13/2016 |
| tert-Butylbenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.7 | 74.8 | 125 | 01/13/2016 |
| Tetrachloroethene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 84.2 | 122 | 01/13/2016 |
| Tetrahydrofuran | 50.0 | J | **45** | 50.00 | 0 | 90.6 | 61 | 118 | 01/13/2016 |
| Toluene | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 81.3 | 113 | 01/13/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 78.2 | 118 | 01/13/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **50.9** | 50.00 | 0 | 101.8 | 81.7 | 124 | 01/13/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **47.7** | 50.00 | 0 | 95.4 | 63.9 | 117 | 01/13/2016 |
| Trichloroethene | 5.0 | | **55.8** | 50.00 | 0 | 111.7 | 81 | 123 | 01/13/2016 |
| Trichlorofluoromethane | 5.0 | | **55.6** | 50.00 | 0 | 111.3 | 66.8 | 131 | 01/13/2016 |
| Vinyl acetate | 50.0 | J | **50** | 50.00 | 0 | 100.0 | 64.3 | 122 | 01/13/2016 |
| Vinyl chloride | 2.0 | | **50.4** | 50.00 | 0 | 100.8 | 45.2 | 140 | 01/13/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010531
**Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **163** | 150.0 | 0 | 108.5 | 85.3 | 118 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.2** | 50.00 | | 94.5 | 72.2 | 131 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.4 | 82.1 | 116 | 01/13/2016 |
| Surr: Toluene-d8 | | | **47.7** | 50.00 | | 95.4 | 86 | 116 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 51.51 | 2.42 | 01/13/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 53.95 | 0.43 | 01/13/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 48.24 | 5.25 | 01/13/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **58.1** | 50.00 | 0 | 116.3 | 58.73 | 1.01 | 01/13/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 49.84 | 1.32 | 01/13/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **121** | 125.0 | 0 | 96.7 | 103.7 | 15.25 | 01/13/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 53.58 | 0.32 | 01/13/2016 |
| 1,1-Dichloroethene | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 53.23 | 0.77 | 01/13/2016 |
| 1,1-Dichloropropene | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 55.13 | 0.78 | 01/13/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **56.7** | 50.00 | 0 | 113.4 | 56.55 | 0.23 | 01/13/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **50.8** | 50.00 | 0 | 101.5 | 48.55 | 4.45 | 01/13/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 50.44 | 1.34 | 01/13/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **59.6** | 50.00 | 0 | 119.2 | 59.32 | 0.50 | 01/13/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **54.8** | 50.00 | 0 | 109.6 | 56.89 | 3.78 | 01/13/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **49.7** | 50.00 | 0 | 99.3 | 43.14 | 14.07 | 01/13/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 48.01 | 3.92 | 01/13/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.1 | 54.75 | 1.25 | 01/13/2016 |
| 1,2-Dichloroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 50.30 | 1.87 | 01/13/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.7** | 50.00 | 0 | 103.5 | 51.13 | 1.17 | 01/13/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 54.35 | 3.52 | 01/13/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **56.2** | 50.00 | 0 | 112.5 | 57.51 | 2.25 | 01/13/2016 |
| 1,3-Dichloropropane | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 48.96 | 1.06 | 01/13/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.5 | 56.42 | 1.16 | 01/13/2016 |
| 1-Chlorobutane | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 52.10 | 1.02 | 01/13/2016 |
| 2,2-Dichloropropane | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 54.51 | 0.87 | 01/13/2016 |
| 2-Butanone | 50.0 | | **114** | 125.0 | 0 | 91.4 | 99.72 | 13.62 | 01/13/2016 |
| 2-Chlorotoluene | 5.0 | | **54.6** | 50.00 | 0 | 109.1 | 55.49 | 1.69 | 01/13/2016 |
| 2-Hexanone | 50.0 | | **105** | 125.0 | 0 | 84.2 | 93.21 | 12.10 | 01/13/2016 |
| 2-Nitropropane | 50.0 | | **559** | 500.0 | 0 | 111.7 | 492.3 | 12.63 | 01/13/2016 |
| 4-Chlorotoluene | 5.0 | | **55.3** | 50.00 | 0 | 110.5 | 55.88 | 1.12 | 01/13/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **126** | 125.0 | 0 | 100.6 | 113.0 | 10.67 | 01/13/2016 |
| Acetone | 50.0 | | **125** | 125.0 | 0 | 99.6 | 110.1 | 12.33 | 01/13/2016 |
| Acetonitrile | 100 | | **549** | 500.0 | 0 | 109.7 | 488.9 | 11.52 | 01/13/2016 |
| Acrolein | 100 | | **510** | 500.0 | 0 | 101.9 | 456.8 | 10.93 | 01/13/2016 |
| Acrylonitrile | 10.0 | | **52.1** | 50.00 | 0 | 104.1 | 47.76 | 8.62 | 01/13/2016 |
| Allyl chloride | 5.0 | | **48.8** | 50.00 | 0 | 97.7 | 49.12 | 0.55 | 01/13/2016 |
| Benzene | 1.0 | | **53.9** | 50.00 | 0 | 107.8 | 53.91 | 0.02 | 01/13/2016 |
| Bromobenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 51.04 | 0.71 | 01/13/2016 |
| Bromochloromethane | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 48.94 | 2.64 | 01/13/2016 |
| Bromodichloromethane | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 51.07 | 1.23 | 01/13/2016 |
| Bromoform | 5.0 | | **56.3** | 50.00 | 0 | 112.6 | 54.85 | 2.64 | 01/13/2016 |
| Bromomethane | 10.0 | | **55.9** | 50.00 | 0 | 111.8 | 55.46 | 0.75 | 01/13/2016 |
| Carbon disulfide | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 53.27 | 0.32 | 01/13/2016 |
| Carbon tetrachloride | 5.0 | | **55.6** | 50.00 | 0 | 111.1 | 56.03 | 0.82 | 01/13/2016 |
| Chlorobenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 54.33 | 1.30 | 01/13/2016 |
| Chloroethane | 10.0 | | **53.6** | 50.00 | 0 | 107.2 | 53.00 | 1.14 | 01/13/2016 |
| Chloroform | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 53.16 | 0.21 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **45.7** | 50.00 | 0 | 91.5 | 44.68 | 2.34 | 01/13/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 51.14 | 0.97 | 01/13/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **53.1** | 50.00 | 0 | 106.2 | 52.71 | 0.76 | 01/13/2016 |
| Cyclohexanone | 100 | | **475** | 500.0 | 0 | 95.0 | 415.1 | 13.48 | 01/13/2016 |
| Dibromochloromethane | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 52.53 | 0.25 | 01/13/2016 |
| Dibromomethane | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 51.39 | 2.99 | 01/13/2016 |
| Dichlorodifluoromethane | 10.0 | | **45.1** | 50.00 | 0 | 90.2 | 45.80 | 1.58 | 01/13/2016 |
| Diisopropyl ether | 5.0 | | **47.2** | 50.00 | 0 | 94.5 | 46.57 | 1.41 | 01/13/2016 |
| Ethyl ether | 5.0 | | **49.4** | 50.00 | 0 | 98.7 | 48.06 | 2.65 | 01/13/2016 |
| Ethyl methacrylate | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 48.28 | 4.63 | 01/13/2016 |
| Ethylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.6 | 51.60 | 1.52 | 01/13/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 47.71 | 2.85 | 01/13/2016 |
| Hexachlorobutadiene | 5.0 | | **59.7** | 50.00 | 0 | 119.4 | 59.58 | 0.20 | 01/13/2016 |
| Hexachloroethane | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 52.34 | 1.85 | 01/13/2016 |
| Iodomethane | 10.0 | | **65.3** | 50.00 | 0 | 130.5 | 64.73 | 0.83 | 01/13/2016 |
| Isopropylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 52.54 | 1.42 | 01/13/2016 |
| m,p-Xylenes | 5.0 | | **108** | 100.0 | 0 | 108.4 | 109.0 | 0.51 | 01/13/2016 |
| Methacrylonitrile | 50.0 | | **51.1** | 50.00 | 0 | 102.3 | 46.43 | 9.65 | 01/13/2016 |
| Methyl Methacrylate | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 46.04 | 7.53 | 01/13/2016 |
| Methyl tert-butyl ether | 2.0 | | **50.3** | 50.00 | 0 | 100.6 | 47.97 | 4.76 | 01/13/2016 |
| Methylacrylate | 10.0 | | **56.3** | 50.00 | 0 | 112.5 | 50.43 | 10.95 | 01/13/2016 |
| Methylene chloride | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 50.95 | 0.94 | 01/13/2016 |
| Naphthalene | 10.0 | | **53.9** | 50.00 | 0 | 107.8 | 50.02 | 7.47 | 01/13/2016 |
| n-Butylbenzene | 5.0 | | **56.8** | 50.00 | 0 | 113.5 | 59.14 | 4.12 | 01/13/2016 |
| n-Heptane | 20.0 | | **53.6** | 50.00 | 0 | 107.3 | 56.12 | 4.54 | 01/13/2016 |
| n-Hexane | 20.0 | | **56.7** | 50.00 | 0 | 113.4 | 58.80 | 3.62 | 01/13/2016 |
| Nitrobenzene | 100 | | **510** | 500.0 | 0 | 102.0 | 435.5 | 15.76 | 01/13/2016 |
| n-Propylbenzene | 5.0 | | **55.5** | 50.00 | 0 | 111.1 | 57.20 | 2.96 | 01/13/2016 |
| o-Xylene | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 53.86 | 1.55 | 01/13/2016 |
| Pentachloroethane | 5.0 | | **54.4** | 50.00 | 0 | 108.7 | 56.61 | 4.06 | 01/13/2016 |
| p-Isopropyltoluene | 5.0 | | **53.9** | 50.00 | 0 | 107.9 | 55.90 | 3.57 | 01/13/2016 |
| Propionitrile | 50.0 | | **563** | 500.0 | 0 | 112.6 | 497.9 | 12.29 | 01/13/2016 |
| sec-Butylbenzene | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 54.25 | 2.41 | 01/13/2016 |
| Styrene | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 54.31 | 0.52 | 01/13/2016 |
| tert-Amyl methyl ether | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 48.82 | 4.52 | 01/13/2016 |
| tert-Butyl alcohol | 50.0 | | **272** | 250.0 | 0 | 108.7 | 232.9 | 15.37 | 01/13/2016 |
| tert-Butylbenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 55.85 | 4.13 | 01/13/2016 |
| Tetrachloroethene | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 52.08 | 1.22 | 01/13/2016 |
| Tetrahydrofuran | 50.0 | | **51.8** | 50.00 | 0 | 103.6 | 45.29 | 13.37 | 01/13/2016 |
| Toluene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 52.93 | 2.56 | 01/13/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **53.6** | 50.00 | 0 | 107.1 | 53.51 | 0.11 | 01/13/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **51.7** | 50.00 | 0 | 103.4 | 50.89 | 1.60 | 01/13/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 47.70 | 4.37 | 01/13/2016 |
| Trichloroethene | 5.0 | | **55.4** | 50.00 | 0 | 110.9 | 55.84 | 0.74 | 01/13/2016 |
| Trichlorofluoromethane | 5.0 | | **55.3** | 50.00 | 0 | 110.7 | 55.63 | 0.54 | 01/13/2016 |
| Vinyl acetate | 50.0 | | **52.6** | 50.00 | 0 | 105.2 | 49.99 | 5.13 | 01/13/2016 |
| Vinyl chloride | 2.0 | | **50.2** | 50.00 | 0 | 100.4 | 50.41 | 0.46 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010531

**Client Project:** NGA 2015-0461.21 **Report Date:** 15-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115581** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **161** | 150.0 | 0 | 107.6 | 162.8 | 0.85 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.3** | 50.00 | | 98.6 | | | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.0** | 50.00 | | 100.0 | | | 01/13/2016 |
| Surr: Toluene-d8 | | | **46.7** | 50.00 | | 93.4 | | | 01/13/2016 |

**Batch 115581** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2180** | 2000 | 0 | 109.1 | 70 | 130 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.0** | 50.00 | | 96.1 | 72.2 | 131 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.3** | 50.00 | | 98.7 | 82.1 | 116 | 01/13/2016 |
| Surr: Toluene-d8 | | | **49.7** | 50.00 | | 99.5 | 86 | 116 | 01/13/2016 |

**Batch 115581** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2160** | 2000 | 0 | 108.2 | 2182 | 0.82 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.3** | 50.00 | | 98.5 | | | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.8** | 50.00 | | 99.5 | | | 01/13/2016 |
| Surr: Toluene-d8 | | | **49.5** | 50.00 | | 99.1 | | | 01/13/2016 |

# Receiving Check List

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010531
**Report Date:** 15-Jan-16

**Carrier:** Matt Wood

**Received By:** KF

**Completed by:** Kalyn Foecke
**On:** 11-Jan-16

**Reviewed by:** Elizabeth A. Hurley
**On:** 11-Jan-16

**Pages to follow:** Chain of custody 2 Extra pages included 0

| | | | | |
|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ | Temp °C 6.82 |
| Type of thermal preservation? | None ☐ | Ice ☑ | Blue Ice ☐ | Dry Ice ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | | |
| Sample containers intact? | Yes ☑ | No ☐ | | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | | |
| All samples received within holding time? | Yes ☑ | No ☐ | | |
| Reported field parameters measured: | Field ☐ | Lab ☐ | NA ☑ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | | |

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

| | | | |
|---|---|---|---|
| Water – at least one vial per sample has zero headspace? | Yes ☑ | No ☐ | No VOA vials ☐ |
| Water - TOX containers have zero headspace? | Yes ☐ | No ☐ | No TOX containers ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | NA ☐ |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes ☐ | No ☐ | NA ☑ |

**Any No responses must be detailed below or on the COC.**

Trip Blank collection date and time will be reported as the received date and time (end of trip). KF 1/11/16

# CHAIN OF CUSTODY

pg. 1 of 2 Work order # 16010531

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☒ ICE ☐ BLUE ICE ☐ NO ICE 6-8 °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**
Zero headspace KF 1/11/16

**Client Comments:**
Meet MRBCA DTLs

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 | Courier |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16010531-001 | SCI-40A | 1-11-2016 11:50 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X | |
| 002 | SCI-40B | 11:50 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X | |
| 003 | SCI-40D | 11:50 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X | |
| 004 | SCI-41A | 12:25 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X | |
| 005 | SCI-41B | 12:25 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X | |
| 006 | SCI-42A | 12:55 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X | |
| 007 | SCI-42B | 12:55 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X | |
| 008 | SCI-43A | 13:40 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 009 | SCI-43B | 13:40 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 010 | SCI-44A | 14:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 1-11-2016 16:00 | [illegible] | 1/11/16 4:00 |
| [illegible] | 1/11/16 4:30 | M. Kamrnger | 1/11/16 4:30 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

KF 1/11/16

# CHAIN OF CUSTODY

pg. 2 of 2 Work order # 16010531

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
Lab Notes

Client Comments: Meet MRBCA DTLs

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number** NGA 2015-0461.21

**Sample Collector's Name** Travis Clayton

**Results Requested** ☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

**Billing Instructions** 2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 011 | SCI-44B | 1-11-2016 14:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 012 | SCI-45A | 14:45 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 013 | SCI-45B | 14:45 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 014 | SCI-46A | 15:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 015 | SCI-46B | 15:38 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| 016 | TB-6 | 8:00 | | | | | | | | 2 | | X | | | | | | | | X |
| 017 | EB-4 | 15:50 | | | | | | | | 2 | | X | | | | | | | | X |
| 16010531 | | | | | | | | | | | | | | | | | | | | |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 1-11-2016 16:00 | [illegible] | 1/11/16 4:00 |
| [illegible] | 1/11/16 4:30 | [illegible] | 1/11/16 4:30 |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

SCI ENGINEERING, INC.
CONSULTANTS IN DEVELOPMENT,
DESIGN AND CONSTRUCTION
GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

January 26, 2016

Mr. Wes March
Missouri Department of Natural Resources
Hazardous Waste Program
P.O. Box 176
Jefferson City, Missouri 65102-0176

RE: Field Activities Progress Summary
National Geospatial Intelligence Agency (Proposed)
St. Louis, Missouri
SCI No. 2015-0461.21

Dear Mr. March:

SCI Engineering, Inc. (SCI) is pleased to submit this summary report for the National Geospatial Intelligence Agency in St. Louis, Missouri from January 18 through January 22, 2016. Per the approved scope of work dated December 10, 2015, SCI has been providing soil and groundwater sampling activities, trenching, and a ground penetrating radar survey for the subject site. During the above-referenced time period, SCI was onsite for four working days. A detailed summary for each site activity during this period is described herein. The enclosed drawing includes actual and proposed boring locations for the subject site.

**SOIL AND GROUNDWATER SAMPLING**

SCI has completed all accessible borings on the subject site, for a total of 68 borings. Per discussions with the City of St. Louis, borings SCI-18, SCI-19 (inaccessible due to fencing), SCI-72 through SCI-74, and SCI-76 (inaccessible due to building access) were removed from the scope of work. Previously, borings SCI-56, SCI-60, and SCI-62 were removed from the scope of work per discussions with MDNR.

SCI mobilized to the site on January 18 to collect groundwater samples from the remaining piezometers on site. All samples were collected with the exception of SCI-35 and SCI-36, which did not produce sufficient water for sampling. When available, SCI will provide the analytical data from the groundwater samples.

**TRENCHING ACTIVITIES**

From January 18 through January 22, 2016, SCI completed 19 trenches. During this time, approximately 2,600 feet of trenching was completed. At this time, SCI has completed trenching activities on site, for a total of 65 trenches totaling approximately 12,500 feet of trenching. Per discussions with MDNR and the City of St. Louis, two trenches (T-15 and T-18) were removed from the scope of work due to structures located within the proposed trench area.

Material observed in the trenches was visually assessed for the presence of suspect asbestos containing materials (ACMs), and samples were collected when identified. To date, 176 bulk samples have been collected of suspect ACMs. Of the 176 bulk samples, a total of 101 bulk samples have been submitted to the laboratory, resulting in the analysis of 157 individual samples/layers of suspect ACM. As only 157 samples/layers were included in the proposed scope of work, the additional 19 bulk samples are on "hold" pending financing approval from the MDNR. SCI is in the process of preparing an addendum to the scope of work which will allow for the analysis of additional suspect ACMs.

**GROUND PENETRATING RADAR (GPR) SURVEY**

All GPR activities required in the approved scope of work were completed on January 7, 2016 and summarized in SCI's Progress Update Report dated January 11, 2016. No further GPR activities are anticipated.

**SCHEDULE**

For the week of January 18, SCI experienced one lost day due to snowfall. SCI maintains the project schedule of a draft report issuance no later than February 12, 2015. Field work has been completed on the subject site. Therefore, this will be the final progress report issued for the proposed scope of work. SCI will continue to provide analytical results when they are made available.

SCI appreciates being of continuing service to you on this project. Please contact us if you have any questions or concerns regarding this report.

Respectfully,
**SCI ENGINEERING, INC.**

Ben K. Butterfield
Staff Scientist

Trey L. Coad
Vice President

NAB/BKB/TLC/EPG/lf

Enclosure

C: Mr. Peter Phillips, City of St. Louis
Mr. Eric Page, Environmental Operations, Inc.

N:\StCharles\shared\1soils\1NEW\PROJECT FILES\2015 PROJECTS\2015-0461 National Geospatial Int. Agency\ES\21\150461.21 Progress Update Report 1-25.docx

GENERAL NOTES/LEGEND

PROJECT NAME

NATIONAL GEOSPATIAL INTELLIGENCE AGENCY
ST. LOUIS, MISSOURI

SAMPLE LOCATION MAP

JOB NUMBER 2015-0461.21

DATE 01/2016

DRAWN BY LAP

CHECKED BY BKB

FIGURE 1

January 19, 2016

Ben Butterfield
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301
TEL: (618) 206-3028
FAX: (636) 949-8269

**RE:** NGA 2015-0461.21 **WorkOrder:** 16010697

Dear Ben Butterfield:

TEKLAB, INC received 29 samples on 1/13/2016 5:10:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Project Manager
(618)344-1004 ex 16
MAustin@teklabinc.com

# Report Contents

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697

**Report Date:** 19-Jan-16

**This reporting package includes the following:**


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| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 4 |
| Laboratory Results | 5 |
| Quality Control Results | 92 |
| Receiving Check List | 136 |
| Chain of Custody | Appended |

# Definitions



**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## Abbr Definition

| | |
|---|---|
| CCV | Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration. |
| DF | Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors. |
| DNI | Did not ignite |
| DUP | Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. |
| ICV | Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated. |
| IDPH | IL Dept. of Public Health |
| LCS | Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request). |
| LCSD | Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MBLK | Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses. |
| MDL | Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. |
| MS | Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MSD | Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MW | Molecular weight |
| ND | Not Detected at the Reporting Limit |
| NELAP | NELAP Accredited |
| PQL | Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request). |
| RL | The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL. |
| RPD | Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request). |
| SPK | The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. |
| Surr | Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. |
| TIC | Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET" |
| TNTC | Too numerous to count ( > 200 CFU ) |

## Qualifiers

| | | | |
|---|---|---|---|
| # - | Unknown hydrocarbon | B - | Analyte detected in associated Method Blank |
| E - | Value above quantitation range | H - | Holding times exceeded |
| I - | Associated internal standard was outside method criteria | J - | Analyte detected below quantitation limits |
| M - | Manual Integration used to determine area response | ND - | Not Detected at the Reporting Limit |
| R - | RPD outside accepted recovery limits | S - | Spike Recovery outside recovery limits |
| T - | TIC(Tentatively identified compound) | X - | Value exceeds Maximum Contaminant Level |

# Case Narrative

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697
**Report Date:** 19-Jan-16

**Cooler Receipt Temp:** 8.02 °C

## Locations and Accreditations

| | Collinsville | Springfield | Kansas City | Collinsville Air |
|---|---|---|---|---|
| Address | 5445 Horseshoe Lake Road | 3920 Pintail Dr | 8421 Nieman Road | 5445 Horseshoe Lake Road |
| | Collinsville, IL 62234-7425 | Springfield, IL 62711-9415 | Lenexa, KS 66214 | Collinsville, IL 62234-7425 |
| Phone | (618) 344-1004 | (217) 698-1004 | (913) 541-1998 | (618) 344-1004 |
| Fax | (618) 344-1005 | (217) 698-1005 | (913) 541-1998 | (618) 344-1005 |
| Email | jhriley@teklabinc.com | KKlostermann@teklabinc.com | dthompson@teklabinc.com | EHurley@teklabinc.com |

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|---|---|---|---|---|---|
| Illinois | IEPA | 100226 | NELAP | 1/31/2017 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 1/31/2016 | Collinsville |
| Louisiana | LDEQ | 166493 | NELAP | 6/30/2016 | Collinsville |
| Louisiana | LDEQ | 166578 | NELAP | 6/30/2016 | Collinsville |
| Texas | TCEQ | T104704515-12-1 | NELAP | 7/31/2016 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2016 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2017 | Collinsville |
| Kentucky | KDEP | 98006 | | 12/31/2016 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2016 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2017 | Collinsville |
| Oklahoma | ODEQ | 9978 | | 8/31/2016 | Collinsville |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-001 **Client Sample ID:** TB-9

**Matrix:** TRIP BLANK **Collection Date:** 01/13/2016 17:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Acetone | NELAP | 25.0 | J | **12** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-001
**Client Sample ID:** TB-9
**Matrix:** TRIP BLANK
**Collection Date:** 01/13/2016 17:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Chlorobenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Chloroethane | NELAP | 10.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Chloroform | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Chloromethane | NELAP | 10.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Chloroprene | NELAP | 20.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Cyclohexanone | | 50.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Dibromochloromethane | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Dibromomethane | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Dichlorodifluoromethane | NELAP | 10.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Diisopropyl ether | | 2.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Ethyl acetate | NELAP | 10.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Ethyl ether | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Ethyl methacrylate | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Ethylbenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Ethyl-tert-butyl ether | | 2.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Hexachlorobutadiene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Hexachloroethane | NELAP | 10.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Iodomethane | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Isopropylbenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| m,p-Xylenes | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Methacrylonitrile | NELAP | 10.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Methyl Methacrylate | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Methyl tert-butyl ether | NELAP | 2.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Methylacrylate | NELAP | 10.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Methylene chloride | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Naphthalene | NELAP | 10.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| n-Butyl acetate | | 25.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| n-Butylbenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| n-Heptane | | 20.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| n-Hexane | | 20.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Nitrobenzene | NELAP | 50.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| n-Propylbenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| o-Xylene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Pentachloroethane | NELAP | 20.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| p-Isopropyltoluene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Propionitrile | NELAP | 50.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| sec-Butylbenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Styrene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| tert-Amyl methyl ether | | 2.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| tert-Butyl alcohol | NELAP | 25.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| tert-Butylbenzene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Tetrachloroethene | NELAP | 5.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Tetrahydrofuran | NELAP | 20.0 | | ND | µg/L | 1 | 01/14/2016 11:55 | 115642 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-001
**Client Sample ID:** TB-9
**Matrix:** TRIP BLANK
**Collection Date:** 01/13/2016 17:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 11:55 | 115642 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **98.0** | %REC | 1 | 01/14/2016 11:55 | 115642 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **100.5** | %REC | 1 | 01/14/2016 11:55 | 115642 |
| Surr: Toluene-d8 | | 84.3-114 | | **99.0** | %REC | 1 | 01/14/2016 11:55 | 115642 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-002
**Client Sample ID:** SCI- 61A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 8:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **15.3** | % | 1 | 01/15/2016 17:13 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **9.50** | mg/Kg-dry | 1 | 01/15/2016 14:55 | 115618 |
| Barium | NELAP | 0.23 | | **134** | mg/Kg-dry | 1 | 01/15/2016 14:55 | 115618 |
| Cadmium | NELAP | 0.18 | | **0.92** | mg/Kg-dry | 1 | 01/15/2016 14:55 | 115618 |
| Chromium | NELAP | 0.45 | | **17.5** | mg/Kg-dry | 1 | 01/15/2016 14:55 | 115618 |
| Lead | NELAP | 1.36 | | **156** | mg/Kg-dry | 1 | 01/15/2016 14:55 | 115618 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 01/15/2016 14:55 | 115618 |
| Silver | NELAP | 0.45 | | **< 0.45** | mg/Kg-dry | 1 | 01/15/2016 14:55 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.192** | mg/Kg-dry | 1 | 01/15/2016 9:56 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.395 | | **1.57** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Anthracene | NELAP | 0.395 | | **4.73** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Benzo(a)anthracene | NELAP | 0.395 | | **11.3** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Benzo(a)pyrene | NELAP | 0.395 | | **10.4** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.395 | | **12.8** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.395 | | **5.28** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Chrysene | NELAP | 0.395 | | **9.43** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.395 | | **0.855** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Fluoranthene | NELAP | 0.395 | | **31.0** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Fluorene | NELAP | 0.395 | | **1.53** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Pyrene | NELAP | 0.395 | | **25.2** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| TPH-DRO (C10 - C21) | | 139 | J | **110** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| TPH-ORO (C21 - C35) | | 139 | | **297** | mg/Kg-dry | 10 | 01/16/2016 1:08 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **74.3** | %REC | 10 | 01/16/2016 1:08 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **71.5** | %REC | 10 | 01/16/2016 1:08 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **95.4** | %REC | 10 | 01/16/2016 1:08 | 115592 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,1,1-Trichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,1,2-Trichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,1-Dichloro-2-propanone | | 39.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,1-Dichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,1-Dichloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,1-Dichloropropene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,2,3-Trichlorobenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,2,3-Trichloropropane | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,2,3-Trimethylbenzene | | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,2,4-Trichlorobenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,2,4-Trimethylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,2-Dibromoethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,2-Dichlorobenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 16010697-002
**Matrix:** SOLID

**Work Order:** 16010697
**Report Date:** 19-Jan-16
**Client Sample ID:** SCI- 61A (0-3)
**Collection Date:** 01/13/2016 8:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,2-Dichloropropane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,3,5-Trimethylbenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,3-Dichlorobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,3-Dichloropropane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1,4-Dichlorobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 1-Chlorobutane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 2,2-Dichloropropane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 2-Butanone | NELAP | 39.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 2-Chlorotoluene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 2-Hexanone | NELAP | 39.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 2-Nitropropane | NELAP | 39.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 4-Chlorotoluene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| 4-Methyl-2-pentanone | NELAP | 39.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Acetone | NELAP | 39.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Acetonitrile | NELAP | 79.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Acrolein | NELAP | 79.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Acrylonitrile | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Allyl chloride | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Bromobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Bromochloromethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Bromodichloromethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Bromoform | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Bromomethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Carbon disulfide | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Carbon tetrachloride | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Chlorobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Chloroethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Chloroform | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Chloromethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| cis-1,2-Dichloroethene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| cis-1,3-Dichloropropene | NELAP | 3.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Cyclohexanone | | 79.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Dibromochloromethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Dibromomethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Dichlorodifluoromethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Diisopropyl ether | | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Ethyl ether | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Ethyl methacrylate | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Ethylbenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Ethyl-tert-butyl ether | | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Hexachlorobutadiene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Hexachloroethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Iodomethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Isopropylbenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| m,p-Xylenes | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-002 **Client Sample ID:** SCI- 61A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 8:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 39.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Methyl Methacrylate | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Methyl tert-butyl ether | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Methylacrylate | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Methylene chloride | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Naphthalene | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| n-Butylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| n-Heptane | | 15.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| n-Hexane | | 15.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Nitrobenzene | NELAP | 79.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| n-Propylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| o-Xylene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Pentachloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| p-Isopropyltoluene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Propionitrile | NELAP | 39.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| sec-Butylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Styrene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| tert-Amyl methyl ether | | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| tert-Butyl alcohol | NELAP | 39.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| tert-Butylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Tetrachloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Tetrahydrofuran | NELAP | 39.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Toluene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| TPH - GRO (C6 - C10) | | 397 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| trans-1,2-Dichloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| trans-1,3-Dichloropropene | NELAP | 3.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Trichloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Trichlorofluoromethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Vinyl acetate | NELAP | 39.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Vinyl chloride | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Xylenes, Total | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 17:44 | 115623 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **106.5** | %REC | 1 | 01/14/2016 17:44 | 115623 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **107.1** | %REC | 1 | 01/14/2016 17:44 | 115623 |
| Surr: Toluene-d8 | | 86-116 | | **100.2** | %REC | 1 | 01/14/2016 17:44 | 115623 |

*RPD for LCS/LCSD was outside of QC limit for iodomethane.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-003
**Client Sample ID:** SCI-61B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.6** | % | 1 | 01/15/2016 17:14 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **7.97** | mg/Kg-dry | 1 | 01/15/2016 14:59 | 115618 |
| Barium | NELAP | 0.23 | | **54.5** | mg/Kg-dry | 1 | 01/15/2016 14:59 | 115618 |
| Cadmium | NELAP | 0.18 | J | **0.12** | mg/Kg-dry | 1 | 01/15/2016 14:59 | 115618 |
| Chromium | NELAP | 0.45 | | **42.9** | mg/Kg-dry | 1 | 01/15/2016 14:59 | 115618 |
| Lead | NELAP | 1.36 | | **11.2** | mg/Kg-dry | 1 | 01/15/2016 14:59 | 115618 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 01/15/2016 14:59 | 115618 |
| Silver | NELAP | 0.45 | | **< 0.45** | mg/Kg-dry | 1 | 01/15/2016 14:59 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.032** | mg/Kg-dry | 1 | 01/15/2016 9:59 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Anthracene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Benzo(a)anthracene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Benzo(a)pyrene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Chrysene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Fluoranthene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Fluorene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Pyrene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| TPH-DRO (C10 - C21) | | 14.6 | J | **7.6** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| TPH-ORO (C21 - C35) | | 14.6 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:30 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **76.3** | %REC | 1 | 01/15/2016 16:30 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.9** | %REC | 1 | 01/15/2016 16:30 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **97.9** | %REC | 1 | 01/15/2016 16:30 | 115592 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,1-Dichloro-2-propanone | | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,2,3-Trichloropropane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,2-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-003 **Client Sample ID:** SCI-61B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 2-Butanone | NELAP | 45.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 2-Hexanone | NELAP | 45.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 2-Nitropropane | NELAP | 45.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| 4-Methyl-2-pentanone | NELAP | 45.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Acetone | NELAP | 45.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Acetonitrile | NELAP | 90.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Acrolein | NELAP | 90.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Acrylonitrile | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Bromomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Chloroethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Chloromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Cyclohexanone | | 90.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Dichlorodifluoromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Iodomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Methacrylonitrile | NELAP | 45.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-003
**Client Sample ID:** SCI-61B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Methylacrylate | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Methylene chloride | NELAP | 4.5 | J | **0.9** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Naphthalene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| n-Heptane | | 18.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| n-Hexane | | 18.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Nitrobenzene | NELAP | 90.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Propionitrile | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| tert-Butyl alcohol | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Tetrahydrofuran | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| TPH - GRO (C6 - C10) | | 454 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Vinyl acetate | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 18:11 | 115623 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.3** | %REC | 1 | 01/14/2016 18:11 | 115623 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.6** | %REC | 1 | 01/14/2016 18:11 | 115623 |
| Surr: Toluene-d8 | | 86-116 | | **96.2** | %REC | 1 | 01/14/2016 18:11 | 115623 |

*RPD for LCS/LCSD was outside of QC limit for iodomethane.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-004 **Client Sample ID:** SCI-63A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 9:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.4** | % | 1 | 01/15/2016 17:14 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **17.9** | mg/Kg-dry | 1 | 01/15/2016 15:03 | 115618 |
| Barium | NELAP | 0.25 | | **333** | mg/Kg-dry | 1 | 01/15/2016 15:03 | 115618 |
| Cadmium | NELAP | 0.20 | | **1.49** | mg/Kg-dry | 1 | 01/15/2016 15:03 | 115618 |
| Chromium | NELAP | 0.50 | | **27.6** | mg/Kg-dry | 1 | 01/15/2016 15:03 | 115618 |
| Lead | NELAP | 1.50 | | **679** | mg/Kg-dry | 1 | 01/15/2016 15:03 | 115618 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/15/2016 15:03 | 115618 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/15/2016 15:03 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.064 | | **0.748** | mg/Kg-dry | 5 | 01/15/2016 12:01 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.216 | | **0.246** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Anthracene | NELAP | 0.216 | | **0.528** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Benzo(a)anthracene | NELAP | 0.216 | | **1.69** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Benzo(a)pyrene | NELAP | 0.216 | | **1.55** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.216 | | **1.95** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.216 | | **0.623** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Chrysene | NELAP | 0.216 | | **1.46** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.216 | J | **0.17** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Fluoranthene | NELAP | 0.216 | | **3.59** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Fluorene | NELAP | 0.216 | J | **0.16** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Pyrene | NELAP | 0.216 | | **3.28** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| TPH-DRO (C10 - C21) | | 76.3 | J | **39** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| TPH-ORO (C21 - C35) | | 76.3 | J | **64** | mg/Kg-dry | 5 | 01/18/2016 18:22 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **60.3** | %REC | 5 | 01/18/2016 18:22 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **60.9** | %REC | 5 | 01/18/2016 18:22 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **77.7** | %REC | 5 | 01/18/2016 18:22 | 115592 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,1,1-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,1,2-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,1-Dichloro-2-propanone | | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,1-Dichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,1-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,1-Dichloropropene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,2,3-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,2,3-Trichloropropane | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,2,3-Trimethylbenzene | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,2,4-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,2,4-Trimethylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,2-Dibromoethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,2-Dichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-004
**Client Sample ID:** SCI-63A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 9:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,3,5-Trimethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,3-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,3-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1,4-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 1-Chlorobutane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 2,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 2-Butanone | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 2-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 2-Hexanone | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 2-Nitropropane | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 4-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| 4-Methyl-2-pentanone | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Acetone | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Acetonitrile | NELAP | 98.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Acrolein | NELAP | 98.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Acrylonitrile | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Allyl chloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Bromobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Bromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Bromodichloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Bromoform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Bromomethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Carbon disulfide | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Carbon tetrachloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Chlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Chloroethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Chloroform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Chloromethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| cis-1,2-Dichloroethene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| cis-1,3-Dichloropropene | NELAP | 3.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Cyclohexanone | | 98.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Dibromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Dibromomethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Dichlorodifluoromethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Diisopropyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Ethyl ether | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Ethyl methacrylate | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Ethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Ethyl-tert-butyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Hexachlorobutadiene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Hexachloroethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Iodomethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Isopropylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| m,p-Xylenes | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-004
**Client Sample ID:** SCI-63A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 9:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Methyl Methacrylate | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Methylacrylate | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Methylene chloride | NELAP | 4.9 | J | **1.5** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Naphthalene | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| n-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| n-Heptane | | 19.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| n-Hexane | | 19.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Nitrobenzene | NELAP | 98.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| n-Propylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| o-Xylene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Pentachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| p-Isopropyltoluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Propionitrile | NELAP | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| sec-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Styrene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| tert-Amyl methyl ether | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| tert-Butyl alcohol | NELAP | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| tert-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Tetrachloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Tetrahydrofuran | NELAP | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Toluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| TPH - GRO (C6 - C10) | | 492 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| trans-1,2-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| trans-1,3-Dichloropropene | NELAP | 3.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Trichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Trichlorofluoromethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Vinyl acetate | NELAP | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Xylenes, Total | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 13:53 | 115663 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.2** | %REC | 1 | 01/15/2016 13:53 | 115663 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **105.5** | %REC | 1 | 01/15/2016 13:53 | 115663 |
| Surr: Toluene-d8 | | 86-116 | | **103.5** | %REC | 1 | 01/15/2016 13:53 | 115663 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-005
**Client Sample ID:** SCI-63B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 9:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.5** | % | 1 | 01/15/2016 17:15 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **7.93** | mg/Kg-dry | 1 | 01/15/2016 15:06 | 115618 |
| Barium | NELAP | 0.25 | | **67.8** | mg/Kg-dry | 1 | 01/15/2016 15:06 | 115618 |
| Cadmium | NELAP | 0.20 | J | **0.07** | mg/Kg-dry | 1 | 01/15/2016 15:06 | 115618 |
| Chromium | NELAP | 0.49 | | **39.4** | mg/Kg-dry | 1 | 01/18/2016 18:21 | 115618 |
| Lead | NELAP | 1.47 | | **13.8** | mg/Kg-dry | 1 | 01/15/2016 15:06 | 115618 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 01/15/2016 15:06 | 115618 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 01/15/2016 15:06 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.026** | mg/Kg-dry | 1 | 01/15/2016 10:04 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Anthracene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Benzo(a)anthracene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Benzo(a)pyrene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Chrysene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Fluoranthene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Fluorene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Pyrene | NELAP | 0.0403 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| TPH-DRO (C10 - C21) | | 14.2 | J | **7.5** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| TPH-ORO (C21 - C35) | | 14.2 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:00 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.9** | %REC | 1 | 01/15/2016 17:00 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.2** | %REC | 1 | 01/15/2016 17:00 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **94.6** | %REC | 1 | 01/15/2016 17:00 | 115592 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,1,1-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,1,2-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,1-Dichloro-2-propanone | | 40.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,1-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,1-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,1-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,2,3-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,2,3-Trichloropropane | NELAP | 8.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,2,3-Trimethylbenzene | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,2,4-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,2,4-Trimethylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,2-Dibromoethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,2-Dichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,2-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-005 **Client Sample ID:** SCI-63B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 9:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,3,5-Trimethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,3-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,3-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1,4-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 1-Chlorobutane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 2,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 2-Butanone | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 2-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 2-Hexanone | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 2-Nitropropane | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 4-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| 4-Methyl-2-pentanone | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Acetone | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Acetonitrile | NELAP | 81.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Acrolein | NELAP | 81.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Acrylonitrile | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Allyl chloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Bromobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Bromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Bromodichloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Bromoform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Bromomethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Carbon disulfide | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Carbon tetrachloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Chlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Chloroethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Chloroform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Chloromethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| cis-1,2-Dichloroethene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| cis-1,3-Dichloropropene | NELAP | 3.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Cyclohexanone | | 81.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Dibromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Dibromomethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Dichlorodifluoromethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Diisopropyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Ethyl ether | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Ethyl methacrylate | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Ethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Ethyl-tert-butyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Hexachlorobutadiene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Hexachloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Iodomethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Isopropylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| m,p-Xylenes | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Methacrylonitrile | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-005
**Client Sample ID:** SCI-63B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 9:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Methyl tert-butyl ether | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Methylacrylate | NELAP | 8.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Methylene chloride | NELAP | 4.1 | J | **0.9** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Naphthalene | NELAP | 8.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| n-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| n-Heptane | | 16.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| n-Hexane | | 16.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Nitrobenzene | NELAP | 81.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| n-Propylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| o-Xylene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Pentachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| p-Isopropyltoluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Propionitrile | NELAP | 40.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| sec-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Styrene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| tert-Amyl methyl ether | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| tert-Butyl alcohol | NELAP | 40.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| tert-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Tetrachloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Tetrahydrofuran | NELAP | 40.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Toluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| TPH - GRO (C6 - C10) | | 407 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| trans-1,2-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| trans-1,3-Dichloropropene | NELAP | 3.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Trichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Trichlorofluoromethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Vinyl acetate | NELAP | 40.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Vinyl chloride | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Xylenes, Total | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:05 | 115623 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.4** | %REC | 1 | 01/14/2016 19:05 | 115623 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.5** | %REC | 1 | 01/14/2016 19:05 | 115623 |
| Surr: Toluene-d8 | | 86-116 | | **98.8** | %REC | 1 | 01/14/2016 19:05 | 115623 |

*RPD for LCS/LCSD was outside of QC limit for iodomethane.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-006 **Client Sample ID:** SCI-64A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.4** | % | 1 | 01/15/2016 17:15 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **8.46** | mg/Kg-dry | 1 | 01/15/2016 15:17 | 115618 |
| Barium | NELAP | 0.23 | | **185** | mg/Kg-dry | 1 | 01/15/2016 15:17 | 115618 |
| Cadmium | NELAP | 0.19 | | **0.92** | mg/Kg-dry | 1 | 01/15/2016 15:17 | 115618 |
| Chromium | NELAP | 0.46 | | **19.7** | mg/Kg-dry | 1 | 01/15/2016 15:17 | 115618 |
| Lead | NELAP | 1.39 | | **230** | mg/Kg-dry | 1 | 01/15/2016 15:17 | 115618 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 01/15/2016 15:17 | 115618 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/15/2016 15:17 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.138** | mg/Kg-dry | 1 | 01/15/2016 10:11 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.409 | | **0.529** | mg/Kg-dry | 10 | 01/16/2016 1:38 | 115592 |
| Anthracene | NELAP | 0.409 | | **1.30** | mg/Kg-dry | 10 | 01/16/2016 1:38 | 115592 |
| Benzo(a)anthracene | NELAP | 0.409 | | **4.52** | mg/Kg-dry | 10 | 01/16/2016 1:38 | 115592 |
| Benzo(a)pyrene | NELAP | 0.409 | | **3.65** | mg/Kg-dry | 10 | 01/18/2016 20:49 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.409 | | **5.49** | mg/Kg-dry | 10 | 01/18/2016 20:49 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.409 | | **2.04** | mg/Kg-dry | 10 | 01/18/2016 20:49 | 115592 |
| Chrysene | NELAP | 0.409 | | **4.42** | mg/Kg-dry | 10 | 01/16/2016 1:38 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.409 | J | **0.30** | mg/Kg-dry | 10 | 01/18/2016 20:49 | 115592 |
| Fluoranthene | NELAP | 0.409 | | **10.4** | mg/Kg-dry | 10 | 01/16/2016 1:38 | 115592 |
| Fluorene | NELAP | 0.409 | | **0.565** | mg/Kg-dry | 10 | 01/16/2016 1:38 | 115592 |
| Pyrene | NELAP | 0.409 | | **9.11** | mg/Kg-dry | 10 | 01/16/2016 1:38 | 115592 |
| TPH-DRO (C10 - C21) | | 144 | J | **85** | mg/Kg-dry | 10 | 01/16/2016 1:38 | 115592 |
| TPH-ORO (C21 - C35) | | 144 | | **191** | mg/Kg-dry | 10 | 01/16/2016 1:38 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **79.5** | %REC | 10 | 01/16/2016 1:38 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **74.8** | %REC | 10 | 01/16/2016 1:38 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **99.2** | %REC | 10 | 01/16/2016 1:38 | 115592 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,1,1-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,1,2-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,1-Dichloro-2-propanone | | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,1-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,1-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,1-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,2,3-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,2,3-Trichloropropane | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,2,3-Trimethylbenzene | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,2,4-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,2,4-Trimethylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,2-Dibromoethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,2-Dichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-006
**Client Sample ID:** SCI-64A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,3,5-Trimethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,3-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,3-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1,4-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 1-Chlorobutane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 2,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 2-Butanone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 2-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 2-Hexanone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 2-Nitropropane | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 4-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| 4-Methyl-2-pentanone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Acetone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Acetonitrile | NELAP | 82.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Acrolein | NELAP | 82.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Acrylonitrile | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Allyl chloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Bromobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Bromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Bromodichloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Bromoform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Bromomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Carbon disulfide | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Carbon tetrachloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Chlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Chloroethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Chloroform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Chloromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| cis-1,2-Dichloroethene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| cis-1,3-Dichloropropene | NELAP | 3.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Cyclohexanone | | 82.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Dibromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Dibromomethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Dichlorodifluoromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Diisopropyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Ethyl ether | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Ethyl methacrylate | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Ethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Ethyl-tert-butyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Hexachlorobutadiene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Hexachloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Iodomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Isopropylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| m,p-Xylenes | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-006 **Client Sample ID:** SCI-64A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Methyl Methacrylate | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Methyl tert-butyl ether | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Methylacrylate | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Methylene chloride | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Naphthalene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| n-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| n-Heptane | | 16.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| n-Hexane | | 16.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Nitrobenzene | NELAP | 82.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| n-Propylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| o-Xylene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Pentachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| p-Isopropyltoluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Propionitrile | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| sec-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Styrene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| tert-Amyl methyl ether | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| tert-Butyl alcohol | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| tert-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Tetrachloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Tetrahydrofuran | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Toluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| TPH - GRO (C6 - C10) | | 413 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| trans-1,2-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| trans-1,3-Dichloropropene | NELAP | 3.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Trichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Trichlorofluoromethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Vinyl acetate | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Vinyl chloride | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Xylenes, Total | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:32 | 115623 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **107.0** | %REC | 1 | 01/14/2016 19:32 | 115623 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **103.7** | %REC | 1 | 01/14/2016 19:32 | 115623 |
| Surr: Toluene-d8 | | 86-116 | | **97.5** | %REC | 1 | 01/14/2016 19:32 | 115623 |

*RPD for LCS/LCSD was outside of QC limit for iodomethane.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-007 **Client Sample ID:** SCI-64B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 9:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.6** | % | 1 | 01/15/2016 17:16 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **6.38** | mg/Kg-dry | 1 | 01/15/2016 15:28 | 115618 |
| Barium | NELAP | 0.24 | | **67.6** | mg/Kg-dry | 1 | 01/15/2016 15:28 | 115618 |
| Cadmium | NELAP | 0.19 | J | **0.08** | mg/Kg-dry | 1 | 01/15/2016 15:28 | 115618 |
| Chromium | NELAP | 0.47 | | **23.5** | mg/Kg-dry | 1 | 01/15/2016 15:28 | 115618 |
| Lead | NELAP | 1.42 | | **10.6** | mg/Kg-dry | 1 | 01/15/2016 15:28 | 115618 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/15/2016 15:28 | 115618 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/15/2016 15:28 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.026** | mg/Kg-dry | 1 | 01/15/2016 10:13 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.412 | J | **0.41** | mg/Kg-dry | 10 | 01/16/2016 2:08 | 115592 |
| Anthracene | NELAP | 0.412 | | **0.942** | mg/Kg-dry | 10 | 01/16/2016 2:08 | 115592 |
| Benzo(a)anthracene | NELAP | 0.412 | | **ND** | mg/Kg-dry | 10 | 01/16/2016 2:08 | 115592 |
| Benzo(a)pyrene | NELAP | 0.412 | | **ND** | mg/Kg-dry | 10 | 01/18/2016 20:19 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.412 | | **ND** | mg/Kg-dry | 10 | 01/18/2016 20:19 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.412 | | **ND** | mg/Kg-dry | 10 | 01/18/2016 20:19 | 115592 |
| Chrysene | NELAP | 0.412 | | **ND** | mg/Kg-dry | 10 | 01/16/2016 2:08 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.412 | | **ND** | mg/Kg-dry | 10 | 01/18/2016 20:19 | 115592 |
| Fluoranthene | NELAP | 0.412 | | **ND** | mg/Kg-dry | 10 | 01/16/2016 2:08 | 115592 |
| Fluorene | NELAP | 0.412 | | **0.776** | mg/Kg-dry | 10 | 01/16/2016 2:08 | 115592 |
| Pyrene | NELAP | 0.412 | J | **0.30** | mg/Kg-dry | 10 | 01/16/2016 2:08 | 115592 |
| TPH-DRO (C10 - C21) | | 145 | | **508** | mg/Kg-dry | 10 | 01/16/2016 2:08 | 115592 |
| TPH-ORO (C21 - C35) | | 145 | J | **99** | mg/Kg-dry | 10 | 01/16/2016 2:08 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **70.4** | %REC | 10 | 01/16/2016 2:08 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **67.2** | %REC | 10 | 01/16/2016 2:08 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **92.2** | %REC | 10 | 01/16/2016 2:08 | 115592 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,1,1-Trichloroethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,1,2,2-Tetrachloroethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,1,2-Trichloroethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,1-Dichloro-2-propanone | | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,1-Dichloroethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,1-Dichloroethene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,1-Dichloropropene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,2,3-Trichlorobenzene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,2,3-Trichloropropane | NELAP | 486 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,2,3-Trimethylbenzene | | 243 | | **1240** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,2,4-Trichlorobenzene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,2,4-Trimethylbenzene | NELAP | 243 | | **3250** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,2-Dibromo-3-chloropropane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,2-Dibromoethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,2-Dichlorobenzene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-007 **Client Sample ID:** SCI-64B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 9:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,2-Dichloropropane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,3,5-Trimethylbenzene | NELAP | 243 | | **404** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,3-Dichlorobenzene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,3-Dichloropropane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1,4-Dichlorobenzene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 1-Chlorobutane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 2,2-Dichloropropane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 2-Butanone | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 2-Chlorotoluene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 2-Hexanone | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 2-Nitropropane | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 4-Chlorotoluene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| 4-Methyl-2-pentanone | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Acetone | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Acetonitrile | NELAP | 4860 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Acrolein | NELAP | 4860 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Acrylonitrile | NELAP | 486 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Allyl chloride | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Benzene | NELAP | 48.6 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Bromobenzene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Bromochloromethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Bromodichloromethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Bromoform | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Bromomethane | NELAP | 486 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Carbon disulfide | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Carbon tetrachloride | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Chlorobenzene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Chloroethane | NELAP | 486 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Chloroform | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Chloromethane | NELAP | 486 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| cis-1,2-Dichloroethene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| cis-1,3-Dichloropropene | NELAP | 195 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Cyclohexanone | | 4860 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Dibromochloromethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Dibromomethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Dichlorodifluoromethane | NELAP | 486 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Diisopropyl ether | | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Ethyl ether | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Ethyl methacrylate | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Ethylbenzene | NELAP | 243 | J | **150** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Ethyl-tert-butyl ether | | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Hexachlorobutadiene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Hexachloroethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Iodomethane | NELAP | 486 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Isopropylbenzene | NELAP | 243 | J | **81** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| m,p-Xylenes | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-007 **Client Sample ID:** SCI-64B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 9:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Methyl Methacrylate | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Methyl tert-butyl ether | NELAP | 97.3 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Methylacrylate | NELAP | 486 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Methylene chloride | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Naphthalene | NELAP | 486 | | **1470** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| n-Butylbenzene | NELAP | 243 | | **605** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| n-Heptane | | 973 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| n-Hexane | | 973 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Nitrobenzene | NELAP | 4860 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| n-Propylbenzene | NELAP | 243 | | **327** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| o-Xylene | NELAP | 243 | J | **67** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Pentachloroethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| p-Isopropyltoluene | NELAP | 243 | J | **160** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Propionitrile | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| sec-Butylbenzene | NELAP | 243 | J | **110** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Styrene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| tert-Amyl methyl ether | | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| tert-Butyl alcohol | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| tert-Butylbenzene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Tetrachloroethene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Tetrahydrofuran | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Toluene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| TPH - GRO (C6 - C10) | | 24300 | J | **17000** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| trans-1,2-Dichloroethene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| trans-1,3-Dichloropropene | NELAP | 195 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| trans-1,4-Dichloro-2-butene | NELAP | 486 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Trichloroethene | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Trichlorofluoromethane | NELAP | 243 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Vinyl acetate | NELAP | 2430 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Vinyl chloride | NELAP | 97.3 | | **ND** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Xylenes, Total | NELAP | 243 | J | **67** | µg/Kg-dry | 25 | 01/15/2016 20:23 | 115663 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **97.8** | %REC | 25 | 01/15/2016 20:23 | 115663 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.3** | %REC | 25 | 01/15/2016 20:23 | 115663 |
| Surr: Toluene-d8 | | 86-116 | | **92.8** | %REC | 25 | 01/15/2016 20:23 | 115663 |

*Elevated reporting limit due to high levels of target and/or non-target analytes.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-008 **Client Sample ID:** SCI-65A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 10:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.3** | % | 1 | 01/15/2016 17:16 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **8.32** | mg/Kg-dry | 1 | 01/15/2016 15:32 | 115618 |
| Barium | NELAP | 0.24 | | **159** | mg/Kg-dry | 1 | 01/15/2016 15:32 | 115618 |
| Cadmium | NELAP | 0.19 | | **0.64** | mg/Kg-dry | 1 | 01/15/2016 15:32 | 115618 |
| Chromium | NELAP | 0.48 | | **19.6** | mg/Kg-dry | 1 | 01/15/2016 15:32 | 115618 |
| Lead | NELAP | 1.44 | | **88.5** | mg/Kg-dry | 1 | 01/15/2016 15:32 | 115618 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/15/2016 15:32 | 115618 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/15/2016 15:32 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.122** | mg/Kg-dry | 1 | 01/15/2016 10:21 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.205 | | **ND** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Anthracene | NELAP | 0.205 | | **ND** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Benzo(a)anthracene | NELAP | 0.205 | | **0.662** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Benzo(a)pyrene | NELAP | 0.205 | | **0.701** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.205 | | **0.919** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.205 | | **0.382** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Chrysene | NELAP | 0.205 | | **0.708** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.205 | | **ND** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Fluoranthene | NELAP | 0.205 | | **1.20** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Fluorene | NELAP | 0.205 | | **ND** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Pyrene | NELAP | 0.205 | | **1.10** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| TPH-DRO (C10 - C21) | | 72.4 | | **ND** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| TPH-ORO (C21 - C35) | | 72.4 | J | **37** | mg/Kg-dry | 5 | 01/18/2016 18:51 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **53.1** | %REC | 5 | 01/18/2016 18:51 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **57.0** | %REC | 5 | 01/18/2016 18:51 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **78.1** | %REC | 5 | 01/18/2016 18:51 | 115592 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,1,1-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,1,2-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,1-Dichloro-2-propanone | | 42.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,1-Dichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,1-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,1-Dichloropropene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,2,3-Trichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,2,3-Trichloropropane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,2,3-Trimethylbenzene | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,2,4-Trichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,2,4-Trimethylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,2-Dibromoethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,2-Dichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-008
**Client Sample ID:** SCI-65A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 10:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,2-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,3,5-Trimethylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,3-Dichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,3-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1,4-Dichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 1-Chlorobutane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 2,2-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 2-Butanone | NELAP | 42.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 2-Chlorotoluene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 2-Hexanone | NELAP | 42.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 2-Nitropropane | NELAP | 42.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 4-Chlorotoluene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| 4-Methyl-2-pentanone | NELAP | 42.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Acetone | NELAP | 42.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Acetonitrile | NELAP | 85.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Acrolein | NELAP | 85.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Acrylonitrile | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Allyl chloride | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Bromobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Bromochloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Bromodichloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Bromoform | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Bromomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Carbon disulfide | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Carbon tetrachloride | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Chlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Chloroethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Chloroform | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Chloromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| cis-1,2-Dichloroethene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Cyclohexanone | | 85.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Dibromochloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Dibromomethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Dichlorodifluoromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Diisopropyl ether | | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Ethyl ether | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Ethyl methacrylate | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Ethylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Ethyl-tert-butyl ether | | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Hexachlorobutadiene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Hexachloroethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Iodomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Isopropylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| m,p-Xylenes | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-008 **Client Sample ID:** SCI-65A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 10:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 42.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Methyl Methacrylate | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Methylacrylate | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Methylene chloride | NELAP | 4.3 | J | **1.4** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Naphthalene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| n-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| n-Heptane | | 17.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| n-Hexane | | 17.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Nitrobenzene | NELAP | 85.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| n-Propylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| o-Xylene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Pentachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| p-Isopropyltoluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Propionitrile | NELAP | 42.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| sec-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Styrene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| tert-Amyl methyl ether | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| tert-Butyl alcohol | NELAP | 42.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| tert-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Tetrachloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Tetrahydrofuran | NELAP | 42.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Toluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| TPH - GRO (C6 - C10) | | 427 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| trans-1,2-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Trichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Trichlorofluoromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Vinyl acetate | NELAP | 42.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Xylenes, Total | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 19:59 | 115623 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **98.5** | %REC | 1 | 01/14/2016 19:59 | 115623 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **109.9** | %REC | 1 | 01/14/2016 19:59 | 115623 |
| Surr: Toluene-d8 | | 86-116 | | **102.8** | %REC | 1 | 01/14/2016 19:59 | 115623 |

*RPD for LCS/LCSD was outside of QC limit for iodomethane.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-009
**Client Sample ID:** SCI-65B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 10:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **33.5** | % | 1 | 01/15/2016 17:17 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **27.9** | mg/Kg-dry | 1 | 01/15/2016 15:36 | 115618 |
| Barium | NELAP | 0.25 | | **136** | mg/Kg-dry | 1 | 01/15/2016 15:36 | 115618 |
| Cadmium | NELAP | 0.20 | | **0.48** | mg/Kg-dry | 1 | 01/15/2016 15:36 | 115618 |
| Chromium | NELAP | 0.50 | | **87.3** | mg/Kg-dry | 1 | 01/15/2016 15:36 | 115618 |
| Lead | NELAP | 1.50 | | **24.6** | mg/Kg-dry | 1 | 01/15/2016 15:36 | 115618 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/15/2016 15:36 | 115618 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/15/2016 15:36 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.014 | | **0.113** | mg/Kg-dry | 1 | 01/15/2016 10:23 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Anthracene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Benzo(a)anthracene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Benzo(a)pyrene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Chrysene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Fluoranthene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Fluorene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Pyrene | NELAP | 0.0509 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| TPH-DRO (C10 - C21) | | 18.0 | J | **9.1** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| TPH-ORO (C21 - C35) | | 18.0 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:29 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **57.0** | %REC | 1 | 01/15/2016 17:29 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **63.4** | %REC | 1 | 01/15/2016 17:29 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **90.5** | %REC | 1 | 01/15/2016 17:29 | 115592 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,1,1-Trichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,1,2-Trichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,1-Dichloro-2-propanone | | 52.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,1-Dichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,1-Dichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,1-Dichloropropene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,2,3-Trichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,2,3-Trichloropropane | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,2,3-Trimethylbenzene | | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,2,4-Trichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,2,4-Trimethylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,2-Dibromoethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,2-Dichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,2-Dichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-009 **Client Sample ID:** SCI-65B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 10:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,3,5-Trimethylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,3-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,3-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1,4-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 1-Chlorobutane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 2,2-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 2-Butanone | NELAP | 52.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 2-Chlorotoluene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 2-Hexanone | NELAP | 52.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 2-Nitropropane | NELAP | 52.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 4-Chlorotoluene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| 4-Methyl-2-pentanone | NELAP | 52.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Acetone | NELAP | 52.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Acetonitrile | NELAP | 105 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Acrolein | NELAP | 105 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Acrylonitrile | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Allyl chloride | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Bromobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Bromochloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Bromodichloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Bromoform | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Bromomethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Carbon disulfide | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Carbon tetrachloride | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Chlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Chloroethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Chloroform | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Chloromethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| cis-1,2-Dichloroethene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| cis-1,3-Dichloropropene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Cyclohexanone | | 105 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Dibromochloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Dibromomethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Dichlorodifluoromethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Diisopropyl ether | | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Ethyl ether | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Ethyl methacrylate | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Ethylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Ethyl-tert-butyl ether | | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Hexachlorobutadiene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Hexachloroethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Iodomethane | NELAP | 10.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Isopropylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| m,p-Xylenes | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Methacrylonitrile | NELAP | 52.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-009 **Client Sample ID:** SCI-65B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 10:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Methyl tert-butyl ether | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Methylacrylate | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Methylene chloride | NELAP | 5.2 | J | **1.1** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Naphthalene | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| n-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| n-Heptane | | 21.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| n-Hexane | | 21.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Nitrobenzene | NELAP | 105 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| n-Propylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| o-Xylene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Pentachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| p-Isopropyltoluene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Propionitrile | NELAP | 52.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| sec-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Styrene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| tert-Amyl methyl ether | | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| tert-Butyl alcohol | NELAP | 52.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| tert-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Tetrachloroethene | NELAP | 5.2 | J | **1.4** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Tetrahydrofuran | NELAP | 52.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Toluene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| TPH - GRO (C6 - C10) | | 524 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| trans-1,2-Dichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| trans-1,3-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Trichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Trichlorofluoromethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Vinyl acetate | NELAP | 52.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Vinyl chloride | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Xylenes, Total | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:26 | 115623 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.1** | %REC | 1 | 01/14/2016 20:26 | 115623 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.9** | %REC | 1 | 01/14/2016 20:26 | 115623 |
| Surr: Toluene-d8 | | 86-116 | | **98.1** | %REC | 1 | 01/14/2016 20:26 | 115623 |

*RPD for LCS/LCSD was outside of QC limit for iodomethane.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-010 **Client Sample ID:** SCI-66A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.5** | % | 1 | 01/15/2016 17:17 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **8.15** | mg/Kg-dry | 1 | 01/15/2016 15:39 | 115618 |
| Barium | NELAP | 0.25 | | **169** | mg/Kg-dry | 1 | 01/15/2016 15:39 | 115618 |
| Cadmium | NELAP | 0.20 | | **0.38** | mg/Kg-dry | 1 | 01/15/2016 15:39 | 115618 |
| Chromium | NELAP | 0.49 | | **17.4** | mg/Kg-dry | 1 | 01/15/2016 15:39 | 115618 |
| Lead | NELAP | 1.47 | | **238** | mg/Kg-dry | 1 | 01/15/2016 15:39 | 115618 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 01/15/2016 15:39 | 115618 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 01/15/2016 15:39 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.298** | mg/Kg-dry | 1 | 01/15/2016 10:25 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.202 | | **0.681** | mg/Kg-dry | 5 | 01/16/2016 2:37 | 115592 |
| Anthracene | NELAP | 0.202 | | **1.58** | mg/Kg-dry | 5 | 01/16/2016 2:37 | 115592 |
| Benzo(a)anthracene | NELAP | 0.202 | | **4.17** | mg/Kg-dry | 5 | 01/16/2016 2:37 | 115592 |
| Benzo(a)pyrene | NELAP | 0.202 | | **2.91** | mg/Kg-dry | 5 | 01/18/2016 19:21 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.202 | | **4.12** | mg/Kg-dry | 5 | 01/18/2016 19:21 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.202 | | **1.16** | mg/Kg-dry | 5 | 01/18/2016 19:21 | 115592 |
| Chrysene | NELAP | 0.202 | | **3.42** | mg/Kg-dry | 5 | 01/16/2016 2:37 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.202 | | **0.337** | mg/Kg-dry | 5 | 01/18/2016 19:21 | 115592 |
| Fluoranthene | NELAP | 0.202 | | **9.62** | mg/Kg-dry | 5 | 01/16/2016 2:37 | 115592 |
| Fluorene | NELAP | 0.202 | | **0.489** | mg/Kg-dry | 5 | 01/16/2016 2:37 | 115592 |
| Pyrene | NELAP | 0.202 | | **8.16** | mg/Kg-dry | 5 | 01/16/2016 2:37 | 115592 |
| TPH-DRO (C10 - C21) | | 71.2 | J | **50** | mg/Kg-dry | 5 | 01/16/2016 2:37 | 115592 |
| TPH-ORO (C21 - C35) | | 71.2 | | **90.4** | mg/Kg-dry | 5 | 01/16/2016 2:37 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **60.5** | %REC | 5 | 01/16/2016 2:37 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **62.5** | %REC | 5 | 01/16/2016 2:37 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **89.2** | %REC | 5 | 01/16/2016 2:37 | 115592 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,1-Dichloro-2-propanone | | 51.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,1-Dichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,1-Dichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,1-Dichloropropene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 10.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,2,3-Trimethylbenzene | | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,2-Dibromoethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-010
**Client Sample ID:** SCI-66A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,2-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,3-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 1-Chlorobutane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 2,2-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 2-Butanone | NELAP | 51.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 2-Chlorotoluene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 2-Hexanone | NELAP | 51.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 2-Nitropropane | NELAP | 51.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 4-Chlorotoluene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 51.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Acetone | NELAP | 51.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Acetonitrile | NELAP | 103 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Acrolein | NELAP | 103 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Acrylonitrile | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Allyl chloride | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Bromobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Bromochloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Bromodichloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Bromoform | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Bromomethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Carbon disulfide | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Carbon tetrachloride | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Chlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Chloroethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Chloroform | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Chloromethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Cyclohexanone | | 103 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Dibromochloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Dibromomethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Dichlorodifluoromethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Diisopropyl ether | | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Ethyl ether | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Ethyl methacrylate | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Ethylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Ethyl-tert-butyl ether | | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Hexachlorobutadiene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Hexachloroethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Iodomethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Isopropylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| m,p-Xylenes | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-010 **Client Sample ID:** SCI-66A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 51.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Methyl Methacrylate | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Methyl tert-butyl ether | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Methylacrylate | NELAP | 10.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Methylene chloride | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Naphthalene | NELAP | 10.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| n-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| n-Heptane | | 20.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| n-Hexane | | 20.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Nitrobenzene | NELAP | 103 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| n-Propylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| o-Xylene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Pentachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| p-Isopropyltoluene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Propionitrile | NELAP | 51.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| sec-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Styrene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| tert-Amyl methyl ether | | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| tert-Butyl alcohol | NELAP | 51.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| tert-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Tetrachloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Tetrahydrofuran | NELAP | 51.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Toluene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| TPH - GRO (C6 - C10) | | 516 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Trichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Trichlorofluoromethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Vinyl acetate | NELAP | 51.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Vinyl chloride | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Xylenes, Total | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:13 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.2** | %REC | 1 | 01/15/2016 1:13 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **106.5** | %REC | 1 | 01/15/2016 1:13 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **99.7** | %REC | 1 | 01/15/2016 1:13 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-011
**Client Sample ID:** SCI-66B (10-15)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 10:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.0** | % | 1 | 01/15/2016 17:18 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **6.58** | mg/Kg-dry | 1 | 01/15/2016 15:43 | 115618 |
| Barium | NELAP | 0.25 | | **133** | mg/Kg-dry | 1 | 01/15/2016 15:43 | 115618 |
| Cadmium | NELAP | 0.20 | | **0.29** | mg/Kg-dry | 1 | 01/15/2016 15:43 | 115618 |
| Chromium | NELAP | 0.49 | | **21.4** | mg/Kg-dry | 1 | 01/15/2016 15:43 | 115618 |
| Lead | NELAP | 1.47 | | **44.4** | mg/Kg-dry | 1 | 01/15/2016 15:43 | 115618 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 01/15/2016 15:43 | 115618 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 01/15/2016 15:43 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.051** | mg/Kg-dry | 1 | 01/15/2016 10:28 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0429 | | **0.369** | mg/Kg-dry | 1 | 01/16/2016 3:07 | 115592 |
| Anthracene | NELAP | 0.0429 | | **0.995** | mg/Kg-dry | 1 | 01/16/2016 3:07 | 115592 |
| Benzo(a)anthracene | NELAP | 0.0429 | | **2.24** | mg/Kg-dry | 1 | 01/16/2016 3:07 | 115592 |
| Benzo(a)pyrene | NELAP | 0.0429 | | **1.64** | mg/Kg-dry | 1 | 01/18/2016 17:52 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.0429 | | **2.07** | mg/Kg-dry | 1 | 01/18/2016 17:52 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.0429 | | **0.717** | mg/Kg-dry | 1 | 01/18/2016 17:52 | 115592 |
| Chrysene | NELAP | 0.0429 | | **1.75** | mg/Kg-dry | 1 | 01/16/2016 3:07 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.0429 | | **0.0696** | mg/Kg-dry | 1 | 01/18/2016 17:52 | 115592 |
| Fluoranthene | NELAP | 0.0429 | | **4.71** | mg/Kg-dry | 1 | 01/16/2016 3:07 | 115592 |
| Fluorene | NELAP | 0.0429 | | **0.429** | mg/Kg-dry | 1 | 01/16/2016 3:07 | 115592 |
| Pyrene | NELAP | 0.0429 | | **4.08** | mg/Kg-dry | 1 | 01/16/2016 3:07 | 115592 |
| TPH-DRO (C10 - C21) | | 15.1 | | **22.7** | mg/Kg-dry | 1 | 01/16/2016 3:07 | 115592 |
| TPH-ORO (C21 - C35) | | 15.1 | | **44.3** | mg/Kg-dry | 1 | 01/16/2016 3:07 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **56.0** | %REC | 1 | 01/16/2016 3:07 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **62.3** | %REC | 1 | 01/16/2016 3:07 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **91.3** | %REC | 1 | 01/16/2016 3:07 | 115592 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,1-Dichloro-2-propanone | | 44.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-011 **Client Sample ID:** SCI-66B (10-15)

**Matrix:** SOLID **Collection Date:** 01/13/2016 10:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 2-Butanone | NELAP | 44.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 2-Hexanone | NELAP | 44.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 2-Nitropropane | NELAP | 44.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 44.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Acetone | NELAP | 44.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Acetonitrile | NELAP | 89.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Acrolein | NELAP | 89.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Acrylonitrile | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Bromomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Chloroethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Chloromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Cyclohexanone | | 89.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Dichlorodifluoromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Iodomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Methacrylonitrile | NELAP | 44.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-011 **Client Sample ID:** SCI-66B (10-15)

**Matrix:** SOLID **Collection Date:** 01/13/2016 10:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Methylacrylate | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Methylene chloride | NELAP | 4.5 | J | **0.9** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Naphthalene | NELAP | 8.9 | J | **2.2** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| n-Heptane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| n-Hexane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Nitrobenzene | NELAP | 89.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Propionitrile | NELAP | 44.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| tert-Butyl alcohol | NELAP | 44.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Tetrahydrofuran | NELAP | 44.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| TPH - GRO (C6 - C10) | | 446 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Vinyl acetate | NELAP | 44.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 1:39 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **102.3** | %REC | 1 | 01/15/2016 1:39 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.5** | %REC | 1 | 01/15/2016 1:39 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **97.4** | %REC | 1 | 01/15/2016 1:39 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-012 **Client Sample ID:** SCI-67A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 11:05

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.4** | % | 1 | 01/15/2016 17:18 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **9.23** | mg/Kg-dry | 1 | 01/15/2016 15:47 | 115618 |
| Barium | NELAP | 0.24 | | **312** | mg/Kg-dry | 1 | 01/15/2016 15:47 | 115618 |
| Cadmium | NELAP | 0.19 | | **0.73** | mg/Kg-dry | 1 | 01/15/2016 15:47 | 115618 |
| Chromium | NELAP | 0.47 | | **17.8** | mg/Kg-dry | 1 | 01/15/2016 15:47 | 115618 |
| Lead | NELAP | 1.42 | | **841** | mg/Kg-dry | 1 | 01/15/2016 15:47 | 115618 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/15/2016 15:47 | 115618 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/15/2016 15:47 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.059 | | **0.677** | mg/Kg-dry | 5 | 01/15/2016 12:03 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.202 | J | **0.16** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Anthracene | NELAP | 0.202 | | **0.424** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Benzo(a)anthracene | NELAP | 0.202 | | **1.52** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Benzo(a)pyrene | NELAP | 0.202 | | **1.36** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.202 | | **1.72** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.202 | | **0.690** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Chrysene | NELAP | 0.202 | | **1.44** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.202 | J | **0.18** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Fluoranthene | NELAP | 0.202 | | **3.33** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Fluorene | NELAP | 0.202 | J | **0.12** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Pyrene | NELAP | 0.202 | | **3.11** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| TPH-DRO (C10 - C21) | | 71.4 | J | **40** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| TPH-ORO (C21 - C35) | | 71.4 | J | **65** | mg/Kg-dry | 5 | 01/16/2016 0:39 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.9** | %REC | 5 | 01/16/2016 0:39 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **69.7** | %REC | 5 | 01/16/2016 0:39 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **105.9** | %REC | 5 | 01/16/2016 0:39 | 115592 |

*Elevated reporting limit due to sample extract composition.*

| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,1-Dichloro-2-propanone | | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-012
**Client Sample ID:** SCI-67A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 11:05

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 2-Butanone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 2-Hexanone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 2-Nitropropane | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Acetone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Acetonitrile | NELAP | 94.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Acrolein | NELAP | 94.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Acrylonitrile | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Bromomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Chloroethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Chloromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Cyclohexanone | | 94.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Dichlorodifluoromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Iodomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-012 **Client Sample ID:** SCI-67A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 11:05

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Methylacrylate | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Methylene chloride | NELAP | 4.7 | J | **1.2** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Naphthalene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| n-Heptane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| n-Hexane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Nitrobenzene | NELAP | 94.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Propionitrile | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| tert-Butyl alcohol | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Tetrahydrofuran | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| TPH - GRO (C6 - C10) | | 471 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Vinyl acetate | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:05 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **99.9** | %REC | 1 | 01/15/2016 2:05 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | S | **120.9** | %REC | 1 | 01/15/2016 2:05 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **111.6** | %REC | 1 | 01/15/2016 2:05 | 115652 |

*Surrogate recovery is outside QC limits due to matrix interference.*

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-013
**Client Sample ID:** SCI-67B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **22.4** | % | 1 | 01/15/2016 17:19 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **4.68** | mg/Kg-dry | 1 | 01/15/2016 15:50 | 115618 |
| Barium | NELAP | 0.24 | | **89.3** | mg/Kg-dry | 1 | 01/15/2016 15:50 | 115618 |
| Cadmium | NELAP | 0.19 | J | **0.16** | mg/Kg-dry | 1 | 01/15/2016 15:50 | 115618 |
| Chromium | NELAP | 0.48 | | **17.1** | mg/Kg-dry | 1 | 01/15/2016 15:50 | 115618 |
| Lead | NELAP | 1.44 | | **8.78** | mg/Kg-dry | 1 | 01/15/2016 15:50 | 115618 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/15/2016 15:50 | 115618 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/15/2016 15:50 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.021** | mg/Kg-dry | 1 | 01/15/2016 10:33 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Anthracene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Benzo(a)anthracene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Benzo(a)pyrene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Chrysene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Fluoranthene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Fluorene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Pyrene | NELAP | 0.0433 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| TPH-DRO (C10 - C21) | | 15.3 | J | **8.0** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| TPH-ORO (C21 - C35) | | 15.3 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 17:59 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **59.5** | %REC | 1 | 01/15/2016 17:59 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **65.7** | %REC | 1 | 01/15/2016 17:59 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **97.2** | %REC | 1 | 01/15/2016 17:59 | 115592 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,1-Dichloro-2-propanone | | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-013
**Client Sample ID:** SCI-67B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 2-Butanone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 2-Hexanone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 2-Nitropropane | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Acetone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Acetonitrile | NELAP | 94.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Acrolein | NELAP | 94.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Acrylonitrile | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Bromomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Chloroethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Chloromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Cyclohexanone | | 94.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Dichlorodifluoromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Iodomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Methacrylonitrile | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-013 **Client Sample ID:** SCI-67B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Methylacrylate | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Methylene chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Naphthalene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| n-Heptane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| n-Hexane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Nitrobenzene | NELAP | 94.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Propionitrile | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| tert-Butyl alcohol | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Tetrahydrofuran | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| TPH - GRO (C6 - C10) | | 471 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Vinyl acetate | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:31 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **105.0** | %REC | 1 | 01/15/2016 2:31 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.0** | %REC | 1 | 01/15/2016 2:31 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **95.5** | %REC | 1 | 01/15/2016 2:31 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-014
**Client Sample ID:** SCI-67D (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.8** | % | 1 | 01/15/2016 17:19 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **5.27** | mg/Kg-dry | 1 | 01/15/2016 15:54 | 115618 |
| Barium | NELAP | 0.24 | | **84.2** | mg/Kg-dry | 1 | 01/15/2016 15:54 | 115618 |
| Cadmium | NELAP | 0.19 | J | **0.17** | mg/Kg-dry | 1 | 01/15/2016 15:54 | 115618 |
| Chromium | NELAP | 0.47 | | **17.7** | mg/Kg-dry | 1 | 01/15/2016 15:54 | 115618 |
| Lead | NELAP | 1.42 | | **8.49** | mg/Kg-dry | 1 | 01/15/2016 15:54 | 115618 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/15/2016 15:54 | 115618 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/15/2016 15:54 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.031** | mg/Kg-dry | 1 | 01/15/2016 10:35 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Anthracene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Chrysene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Fluoranthene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Fluorene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Pyrene | NELAP | 0.0434 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| TPH-DRO (C10 - C21) | | 15.3 | J | **8.0** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| TPH-ORO (C21 - C35) | | 15.3 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 11:30 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **74.1** | %REC | 1 | 01/15/2016 11:30 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **69.4** | %REC | 1 | 01/15/2016 11:30 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **89.2** | %REC | 1 | 01/15/2016 11:30 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,1-Dichloro-2-propanone | | 46.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-014 **Client Sample ID:** SCI-67D (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 2-Butanone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 2-Hexanone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 2-Nitropropane | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Acetone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Acetonitrile | NELAP | 92.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Acrolein | NELAP | 92.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Cyclohexanone | | 92.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Iodomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Methacrylonitrile | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-014
**Client Sample ID:** SCI-67D (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Methylene chloride | NELAP | 4.6 | J | **1.4** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| n-Heptane | | 18.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| n-Hexane | | 18.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Nitrobenzene | NELAP | 92.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Propionitrile | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| tert-Butyl alcohol | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Tetrahydrofuran | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| TPH - GRO (C6 - C10) | | 461 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Vinyl acetate | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 2:57 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.6** | %REC | 1 | 01/15/2016 2:57 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.7** | %REC | 1 | 01/15/2016 2:57 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **97.7** | %REC | 1 | 01/15/2016 2:57 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-015 **Client Sample ID:** SCI-68A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.5** | % | 1 | 01/15/2016 17:20 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **11.1** | mg/Kg-dry | 1 | 01/15/2016 15:58 | 115618 |
| Barium | NELAP | 0.25 | | **210** | mg/Kg-dry | 1 | 01/15/2016 15:58 | 115618 |
| Cadmium | NELAP | 0.20 | J | **0.17** | mg/Kg-dry | 1 | 01/15/2016 15:58 | 115618 |
| Chromium | NELAP | 0.49 | | **20.2** | mg/Kg-dry | 1 | 01/15/2016 15:58 | 115618 |
| Lead | NELAP | 1.47 | | **13.3** | mg/Kg-dry | 1 | 01/15/2016 15:58 | 115618 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 01/15/2016 15:58 | 115618 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 01/15/2016 15:58 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.031** | mg/Kg-dry | 1 | 01/15/2016 10:38 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Anthracene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Chrysene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Fluoranthene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Fluorene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Pyrene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| TPH-DRO (C10 - C21) | | 14.5 | J | **7.5** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| TPH-ORO (C21 - C35) | | 14.5 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:00 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **74.6** | %REC | 1 | 01/15/2016 12:00 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **69.9** | %REC | 1 | 01/15/2016 12:00 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **93.2** | %REC | 1 | 01/15/2016 12:00 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,1-Dichloro-2-propanone | | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-015 **Client Sample ID:** SCI-68A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 2-Butanone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 2-Hexanone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 2-Nitropropane | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Acetone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Acetonitrile | NELAP | 87.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Acrolein | NELAP | 87.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Acrylonitrile | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Bromomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Chloroethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Chloromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Cyclohexanone | | 87.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Dichlorodifluoromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Iodomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Methacrylonitrile | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-015 **Client Sample ID:** SCI-68A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Methylacrylate | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Naphthalene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| n-Heptane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| n-Hexane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Nitrobenzene | NELAP | 87.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Propionitrile | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| tert-Butyl alcohol | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Tetrahydrofuran | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| TPH - GRO (C6 - C10) | | 440 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Vinyl acetate | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:23 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **109.9** | %REC | 1 | 01/15/2016 3:23 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.9** | %REC | 1 | 01/15/2016 3:23 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **96.5** | %REC | 1 | 01/15/2016 3:23 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-016
**Client Sample ID:** SCI-68B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 12:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.7** | % | 1 | 01/15/2016 17:21 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **6.11** | mg/Kg-dry | 1 | 01/15/2016 16:01 | 115618 |
| Barium | NELAP | 0.23 | | **123** | mg/Kg-dry | 1 | 01/15/2016 16:01 | 115618 |
| Cadmium | NELAP | 0.19 | | **0.20** | mg/Kg-dry | 1 | 01/15/2016 16:01 | 115618 |
| Chromium | NELAP | 0.46 | | **18.9** | mg/Kg-dry | 1 | 01/15/2016 16:01 | 115618 |
| Lead | NELAP | 1.39 | | **8.75** | mg/Kg-dry | 1 | 01/15/2016 16:01 | 115618 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 01/15/2016 16:01 | 115618 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/15/2016 16:01 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.025** | mg/Kg-dry | 1 | 01/15/2016 10:50 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Chrysene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Fluorene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| TPH-DRO (C10 - C21) | | 14.9 | J | **7.8** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| TPH-ORO (C21 - C35) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 12:30 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **72.8** | %REC | 1 | 01/15/2016 12:30 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.8** | %REC | 1 | 01/15/2016 12:30 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **89.4** | %REC | 1 | 01/15/2016 12:30 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,1-Dichloro-2-propanone | | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-016 **Client Sample ID:** SCI-68B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 2-Butanone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 2-Hexanone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 2-Nitropropane | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Acetone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Acetonitrile | NELAP | 89.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Acrolein | NELAP | 89.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Acrylonitrile | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Bromomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Chloroethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Chloromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Cyclohexanone | | 89.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Dichlorodifluoromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Iodomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Methacrylonitrile | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-016
**Client Sample ID:** SCI-68B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 12:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Methylacrylate | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Methylene chloride | NELAP | 4.4 | J | **1.2** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Naphthalene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| n-Heptane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| n-Hexane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Nitrobenzene | NELAP | 89.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Propionitrile | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| tert-Butyl alcohol | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Tetrachloroethene | NELAP | 4.4 | | **6.6** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Tetrahydrofuran | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| TPH - GRO (C6 - C10) | | 445 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Vinyl acetate | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 3:49 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.3** | %REC | 1 | 01/15/2016 3:49 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.6** | %REC | 1 | 01/15/2016 3:49 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **97.1** | %REC | 1 | 01/15/2016 3:49 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-017 **Client Sample ID:** SCI-69A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.9** | % | 1 | 01/15/2016 17:22 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **8.91** | mg/Kg-dry | 1 | 01/15/2016 16:12 | 115618 |
| Barium | NELAP | 0.23 | | **132** | mg/Kg-dry | 1 | 01/15/2016 16:12 | 115618 |
| Cadmium | NELAP | 0.19 | | **0.42** | mg/Kg-dry | 1 | 01/15/2016 16:12 | 115618 |
| Chromium | NELAP | 0.46 | | **27.8** | mg/Kg-dry | 1 | 01/15/2016 16:12 | 115618 |
| Lead | NELAP | 1.39 | | **34.0** | mg/Kg-dry | 1 | 01/15/2016 16:12 | 115618 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 01/15/2016 16:12 | 115618 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/15/2016 16:12 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.355** | mg/Kg-dry | 1 | 01/15/2016 10:53 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0804 | J | **0.046** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Anthracene | NELAP | 0.0804 | | **0.124** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0804 | | **0.532** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0804 | | **0.503** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0804 | | **0.697** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0804 | | **0.239** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Chrysene | NELAP | 0.0804 | | **0.505** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0804 | J | **0.058** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Fluoranthene | NELAP | 0.0804 | | **1.15** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Fluorene | NELAP | 0.0804 | | **ND** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Pyrene | NELAP | 0.0804 | | **1.07** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| TPH-DRO (C10 - C21) | | 28.4 | J | **18** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| TPH-ORO (C21 - C35) | | 28.4 | | **36.6** | mg/Kg-dry | 2 | 01/19/2016 12:20 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **58.8** | %REC | 2 | 01/19/2016 12:20 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **53.8** | %REC | 2 | 01/19/2016 12:20 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **72.6** | %REC | 2 | 01/19/2016 12:20 | 115616 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,1-Dichloro-2-propanone | | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-017 **Client Sample ID:** SCI-69A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 2-Butanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 2-Hexanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 2-Nitropropane | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Acetone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Acetonitrile | NELAP | 91.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Acrolein | NELAP | 91.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Acrylonitrile | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Bromomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Chloroethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Chloromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Cyclohexanone | | 91.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Dichlorodifluoromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Iodomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-017 **Client Sample ID:** SCI-69A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Methylacrylate | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Naphthalene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| n-Heptane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| n-Hexane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Nitrobenzene | NELAP | 91.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Propionitrile | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| tert-Butyl alcohol | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Tetrachloroethene | NELAP | 4.6 | J | **1.1** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Tetrahydrofuran | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| TPH - GRO (C6 - C10) | | 457 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Vinyl acetate | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:15 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.6** | %REC | 1 | 01/15/2016 4:15 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **111.0** | %REC | 1 | 01/15/2016 4:15 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **100.1** | %REC | 1 | 01/15/2016 4:15 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-018 **Client Sample ID:** SCI-69B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.1** | % | 1 | 01/15/2016 17:22 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **7.41** | mg/Kg-dry | 1 | 01/15/2016 16:16 | 115618 |
| Barium | NELAP | 0.23 | | **85.2** | mg/Kg-dry | 1 | 01/15/2016 16:16 | 115618 |
| Cadmium | NELAP | 0.19 | | **0.20** | mg/Kg-dry | 1 | 01/15/2016 16:16 | 115618 |
| Chromium | NELAP | 0.46 | S | **33.2** | mg/Kg-dry | 1 | 01/15/2016 16:16 | 115618 |
| Lead | NELAP | 1.39 | | **17.6** | mg/Kg-dry | 1 | 01/15/2016 16:16 | 115618 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 01/15/2016 16:16 | 115618 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/15/2016 16:16 | 115618 |
| *Cr- MS or MSD did not recover within control limits due to sample composition. Verified by re-prep and re-analysis.* | | | | | | | | |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.038** | mg/Kg-dry | 1 | 01/15/2016 10:55 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Chrysene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Fluorene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Pyrene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| TPH-DRO (C10 - C21) | | 14.8 | J | **7.7** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| TPH-ORO (C21 - C35) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:00 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **72.6** | %REC | 1 | 01/15/2016 13:00 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **69.7** | %REC | 1 | 01/15/2016 13:00 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **91.6** | %REC | 1 | 01/15/2016 13:00 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,1-Dichloro-2-propanone | | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-018 **Client Sample ID:** SCI-69B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 1-Chlorobutane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 2-Butanone | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 2-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 2-Hexanone | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 2-Nitropropane | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 4-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Acetone | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Acetonitrile | NELAP | 84.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Acrolein | NELAP | 84.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Acrylonitrile | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Allyl chloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Bromobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Bromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Bromodichloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Bromoform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Bromomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Carbon disulfide | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Carbon tetrachloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Chlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Chloroethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Chloroform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Chloromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Cyclohexanone | | 84.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Dibromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Dibromomethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Dichlorodifluoromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Diisopropyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Ethyl ether | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Ethyl methacrylate | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Ethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Ethyl-tert-butyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Hexachlorobutadiene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Hexachloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Iodomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Isopropylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| m,p-Xylenes | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-018 **Client Sample ID:** SCI-69B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 12:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Methyl Methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Methylacrylate | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Methylene chloride | NELAP | 4.2 | J | **1.0** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Naphthalene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| n-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| n-Heptane | | 17.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| n-Hexane | | 17.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Nitrobenzene | NELAP | 84.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| n-Propylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| o-Xylene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Pentachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| p-Isopropyltoluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Propionitrile | NELAP | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| sec-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Styrene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| tert-Amyl methyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| tert-Butyl alcohol | NELAP | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| tert-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Tetrachloroethene | NELAP | 4.2 | | **16.1** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Tetrahydrofuran | NELAP | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Toluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| TPH - GRO (C6 - C10) | | 424 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Trichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Trichlorofluoromethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Vinyl acetate | NELAP | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Xylenes, Total | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 4:42 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.6** | %REC | 1 | 01/15/2016 4:42 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **97.5** | %REC | 1 | 01/15/2016 4:42 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **96.1** | %REC | 1 | 01/15/2016 4:42 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-019
**Client Sample ID:** SCI-70A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 13:05

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.8** | % | 1 | 01/15/2016 17:23 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **8.46** | mg/Kg-dry | 1 | 01/15/2016 16:27 | 115618 |
| Barium | NELAP | 0.25 | | **166** | mg/Kg-dry | 1 | 01/15/2016 16:27 | 115618 |
| Cadmium | NELAP | 0.20 | | **0.59** | mg/Kg-dry | 1 | 01/15/2016 16:27 | 115618 |
| Chromium | NELAP | 0.50 | | **19.0** | mg/Kg-dry | 1 | 01/15/2016 16:27 | 115618 |
| Lead | NELAP | 1.50 | | **117** | mg/Kg-dry | 1 | 01/15/2016 16:27 | 115618 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/15/2016 16:27 | 115618 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/15/2016 16:27 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.555** | mg/Kg-dry | 1 | 01/15/2016 10:58 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.202 | | **0.317** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Anthracene | NELAP | 0.202 | | **0.658** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Benzo(a)anthracene | NELAP | 0.202 | | **2.19** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Benzo(a)pyrene | NELAP | 0.202 | | **1.94** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.202 | | **2.87** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.202 | | **0.875** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Chrysene | NELAP | 0.202 | | **2.02** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.202 | J | **0.18** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Fluoranthene | NELAP | 0.202 | | **5.11** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Fluorene | NELAP | 0.202 | | **0.216** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Pyrene | NELAP | 0.202 | | **4.50** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| TPH-DRO (C10 - C21) | | 71.3 | J | **43** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| TPH-ORO (C21 - C35) | | 71.3 | | **79.7** | mg/Kg-dry | 5 | 01/19/2016 13:20 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **54.2** | %REC | 5 | 01/19/2016 13:20 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **54.2** | %REC | 5 | 01/19/2016 13:20 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **72.0** | %REC | 5 | 01/19/2016 13:20 | 115616 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,1-Dichloro-2-propanone | | 41.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 8.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-019 **Client Sample ID:** SCI-70A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 13:05

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 1-Chlorobutane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 2-Butanone | NELAP | 41.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 2-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 2-Hexanone | NELAP | 41.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 2-Nitropropane | NELAP | 41.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 4-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 41.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Acetone | NELAP | 41.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Acetonitrile | NELAP | 82.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Acrolein | NELAP | 82.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Acrylonitrile | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Allyl chloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Bromobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Bromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Bromodichloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Bromoform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Bromomethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Carbon disulfide | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Carbon tetrachloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Chlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Chloroethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Chloroform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Chloromethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Cyclohexanone | | 82.3 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Dibromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Dibromomethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Dichlorodifluoromethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Diisopropyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Ethyl ether | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Ethyl methacrylate | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Ethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Ethyl-tert-butyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Hexachlorobutadiene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Hexachloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Iodomethane | NELAP | 8.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Isopropylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| m,p-Xylenes | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-019 **Client Sample ID:** SCI-70A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 13:05

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 41.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Methyl Methacrylate | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Methylacrylate | NELAP | 8.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Methylene chloride | NELAP | 4.1 | J | **1.1** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Naphthalene | NELAP | 8.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| n-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| n-Heptane | | 16.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| n-Hexane | | 16.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Nitrobenzene | NELAP | 82.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| n-Propylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| o-Xylene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Pentachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| p-Isopropyltoluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Propionitrile | NELAP | 41.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| sec-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Styrene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| tert-Amyl methyl ether | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| tert-Butyl alcohol | NELAP | 41.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| tert-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Tetrachloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Tetrahydrofuran | NELAP | 41.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Toluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| TPH - GRO (C6 - C10) | | 411 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Trichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Trichlorofluoromethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Vinyl acetate | NELAP | 41.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Vinyl chloride | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Xylenes, Total | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:08 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **97.4** | %REC | 1 | 01/15/2016 5:08 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.6** | %REC | 1 | 01/15/2016 5:08 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **98.6** | %REC | 1 | 01/15/2016 5:08 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-020
**Client Sample ID:** SCI-70B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.8** | % | 1 | 01/15/2016 17:23 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **4.63** | mg/Kg-dry | 1 | 01/15/2016 16:31 | 115618 |
| Barium | NELAP | 0.24 | | **97.5** | mg/Kg-dry | 1 | 01/15/2016 16:31 | 115618 |
| Cadmium | NELAP | 0.19 | J | **0.16** | mg/Kg-dry | 1 | 01/18/2016 19:08 | 115618 |
| Chromium | NELAP | 0.48 | | **19.8** | mg/Kg-dry | 1 | 01/15/2016 16:31 | 115618 |
| Lead | NELAP | 1.44 | | **9.10** | mg/Kg-dry | 1 | 01/15/2016 16:31 | 115618 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/15/2016 16:31 | 115618 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/15/2016 16:31 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.023** | mg/Kg-dry | 1 | 01/15/2016 11:00 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Chrysene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Fluorene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| TPH-DRO (C10 - C21) | | 14.9 | J | **7.8** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| TPH-ORO (C21 - C35) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 13:30 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **69.2** | %REC | 1 | 01/15/2016 13:30 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.1** | %REC | 1 | 01/15/2016 13:30 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **91.1** | %REC | 1 | 01/15/2016 13:30 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,1-Dichloro-2-propanone | | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-020 **Client Sample ID:** SCI-70B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 2-Butanone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 2-Hexanone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 2-Nitropropane | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Acetone | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Acetonitrile | NELAP | 89.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Acrolein | NELAP | 89.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Acrylonitrile | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Bromomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Chloroethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Chloromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Cyclohexanone | | 89.0 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Dichlorodifluoromethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Iodomethane | NELAP | 8.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Methacrylonitrile | NELAP | 44.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-020 **Client Sample ID:** SCI-70B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Methylacrylate | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Methylene chloride | NELAP | 4.4 | J | **1.2** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Naphthalene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| n-Heptane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| n-Hexane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Nitrobenzene | NELAP | 89.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Propionitrile | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| tert-Butyl alcohol | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Tetrahydrofuran | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| TPH - GRO (C6 - C10) | | 445 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Vinyl acetate | NELAP | 44.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 5:34 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.4** | %REC | 1 | 01/15/2016 5:34 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.1** | %REC | 1 | 01/15/2016 5:34 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **96.1** | %REC | 1 | 01/15/2016 5:34 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-021
**Client Sample ID:** SCI-70D (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.1** | % | 1 | 01/15/2016 17:23 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **4.69** | mg/Kg-dry | 1 | 01/15/2016 16:35 | 115618 |
| Barium | NELAP | 0.25 | | **99.0** | mg/Kg-dry | 1 | 01/15/2016 16:35 | 115618 |
| Cadmium | NELAP | 0.20 | J | **0.17** | mg/Kg-dry | 1 | 01/15/2016 16:35 | 115618 |
| Chromium | NELAP | 0.49 | | **18.7** | mg/Kg-dry | 1 | 01/15/2016 16:35 | 115618 |
| Lead | NELAP | 1.47 | | **8.93** | mg/Kg-dry | 1 | 01/15/2016 16:35 | 115618 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 01/15/2016 16:35 | 115618 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 01/15/2016 16:35 | 115618 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.024** | mg/Kg-dry | 1 | 01/15/2016 11:03 | 115620 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Anthracene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Chrysene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Fluoranthene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Fluorene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Pyrene | NELAP | 0.0422 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| TPH-DRO (C10 - C21) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| TPH-ORO (C21 - C35) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:00 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **55.1** | %REC | 1 | 01/15/2016 14:00 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **55.7** | %REC | 1 | 01/15/2016 14:00 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **80.4** | %REC | 1 | 01/15/2016 14:00 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,1-Dichloro-2-propanone | | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-021
**Client Sample ID:** SCI-70D (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 2-Butanone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 2-Hexanone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 2-Nitropropane | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Acetone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Acetonitrile | NELAP | 91.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Acrolein | NELAP | 91.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Cyclohexanone | | 91.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Iodomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Methacrylonitrile | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-021 **Client Sample ID:** SCI-70D (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Methylene chloride | NELAP | 4.6 | J | **1.1** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| n-Heptane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| n-Hexane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Nitrobenzene | NELAP | 91.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Propionitrile | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| tert-Butyl alcohol | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Tetrahydrofuran | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| TPH - GRO (C6 - C10) | | 458 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Vinyl acetate | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:01 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **99.8** | %REC | 1 | 01/15/2016 6:01 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.0** | %REC | 1 | 01/15/2016 6:01 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **97.2** | %REC | 1 | 01/15/2016 6:01 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-022 **Client Sample ID:** SCI-71A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 13:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.9** | % | 1 | 01/15/2016 17:24 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **9.07** | mg/Kg-dry | 1 | 01/18/2016 19:44 | 115661 |
| Barium | NELAP | 0.25 | | **190** | mg/Kg-dry | 1 | 01/18/2016 19:44 | 115661 |
| Cadmium | NELAP | 0.20 | | **0.66** | mg/Kg-dry | 1 | 01/18/2016 19:44 | 115661 |
| Chromium | NELAP | 0.50 | | **17.9** | mg/Kg-dry | 1 | 01/18/2016 19:44 | 115661 |
| Lead | NELAP | 1.50 | | **187** | mg/Kg-dry | 1 | 01/18/2016 19:44 | 115661 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/18/2016 19:44 | 115661 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/18/2016 19:44 | 115661 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.253** | mg/Kg-dry | 1 | 01/15/2016 11:10 | 115632 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0831 | | **ND** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Anthracene | NELAP | 0.0831 | | **ND** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0831 | | **0.200** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0831 | | **0.197** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0831 | | **0.266** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0831 | | **0.102** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Chrysene | NELAP | 0.0831 | | **0.218** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0831 | | **ND** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Fluoranthene | NELAP | 0.0831 | | **0.494** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Fluorene | NELAP | 0.0831 | | **ND** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Pyrene | NELAP | 0.0831 | | **0.431** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| TPH-DRO (C10 - C21) | | 29.3 | J | **16** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| TPH-ORO (C21 - C35) | | 29.3 | J | **20** | mg/Kg-dry | 2 | 01/19/2016 11:50 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **60.0** | %REC | 2 | 01/19/2016 11:50 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **57.7** | %REC | 2 | 01/19/2016 11:50 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **75.8** | %REC | 2 | 01/19/2016 11:50 | 115616 |

*Elevated reporting limit due to sample extract composition.*

| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,1-Dichloro-2-propanone | | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-022 **Client Sample ID:** SCI-71A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 13:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 2-Butanone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 2-Hexanone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 2-Nitropropane | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Acetone | NELAP | 47.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Acetonitrile | NELAP | 94.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Acrolein | NELAP | 94.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Acrylonitrile | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Bromomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Chloroethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Chloromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Cyclohexanone | | 94.1 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Dichlorodifluoromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Iodomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-022
**Client Sample ID:** SCI-71A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 13:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Methylacrylate | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Methylene chloride | NELAP | 4.7 | J | **1.2** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Naphthalene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| n-Heptane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| n-Hexane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Nitrobenzene | NELAP | 94.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Propionitrile | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| tert-Butyl alcohol | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Tetrahydrofuran | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| TPH - GRO (C6 - C10) | | 471 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Vinyl acetate | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:27 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.1** | %REC | 1 | 01/15/2016 6:27 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.0** | %REC | 1 | 01/15/2016 6:27 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **95.6** | %REC | 1 | 01/15/2016 6:27 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-023
**Client Sample ID:** SCI-71B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 13:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.3** | % | 1 | 01/15/2016 17:24 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **6.31** | mg/Kg-dry | 1 | 01/18/2016 19:49 | 115661 |
| Barium | NELAP | 0.25 | | **146** | mg/Kg-dry | 1 | 01/18/2016 19:49 | 115661 |
| Cadmium | NELAP | 0.20 | J | **0.19** | mg/Kg-dry | 1 | 01/18/2016 19:49 | 115661 |
| Chromium | NELAP | 0.50 | | **18.5** | mg/Kg-dry | 1 | 01/18/2016 19:49 | 115661 |
| Lead | NELAP | 1.50 | | **8.89** | mg/Kg-dry | 1 | 01/18/2016 19:49 | 115661 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/18/2016 19:49 | 115661 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/18/2016 19:49 | 115661 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.024** | mg/Kg-dry | 1 | 01/15/2016 11:12 | 115632 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Anthracene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Chrysene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Fluoranthene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Fluorene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Pyrene | NELAP | 0.0430 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| TPH-DRO (C10 - C21) | | 15.2 | J | **7.8** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| TPH-ORO (C21 - C35) | | 15.2 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 16:00 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **61.9** | %REC | 1 | 01/15/2016 16:00 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **64.6** | %REC | 1 | 01/15/2016 16:00 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **90.5** | %REC | 1 | 01/15/2016 16:00 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,1-Dichloro-2-propanone | | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-023
**Client Sample ID:** SCI-71B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 13:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 1-Chlorobutane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 2-Butanone | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 2-Chlorotoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 2-Hexanone | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 2-Nitropropane | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 4-Chlorotoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Acetone | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Acetonitrile | NELAP | 91.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Acrolein | NELAP | 91.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Acrylonitrile | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Allyl chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Benzene | NELAP | 0.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Bromobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Bromochloromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Bromodichloromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Bromoform | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Bromomethane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Carbon disulfide | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Carbon tetrachloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Chlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Chloroethane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Chloroform | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Chloromethane | NELAP | 9.2 | J | **7.5** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Cyclohexanone | | 91.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Dibromochloromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Dibromomethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Dichlorodifluoromethane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Diisopropyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Ethyl ether | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Ethyl methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Ethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Ethyl-tert-butyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Hexachlorobutadiene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Hexachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Iodomethane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Isopropylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| m,p-Xylenes | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Methacrylonitrile | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-023
**Client Sample ID:** SCI-71B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 13:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Methylene chloride | NELAP | 4.6 | J | **1.2** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| n-Heptane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| n-Hexane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Nitrobenzene | NELAP | 91.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Propionitrile | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| tert-Butyl alcohol | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Tetrahydrofuran | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| TPH - GRO (C6 - C10) | | 458 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Vinyl acetate | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 6:53 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.6** | %REC | 1 | 01/15/2016 6:53 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **96.7** | %REC | 1 | 01/15/2016 6:53 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **96.9** | %REC | 1 | 01/15/2016 6:53 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-024 **Client Sample ID:** TB-10

**Matrix:** TRIP BLANK **Collection Date:** 01/13/2016 17:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Acetone | NELAP | 25.0 | J | **12** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-024 **Client Sample ID:** TB-10

**Matrix:** TRIP BLANK **Collection Date:** 01/13/2016 17:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-024
**Client Sample ID:** TB-10
**Matrix:** TRIP BLANK
**Collection Date:** 01/13/2016 17:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:22 | 115642 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **98.7** | %REC | 1 | 01/14/2016 12:22 | 115642 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **101.7** | %REC | 1 | 01/14/2016 12:22 | 115642 |
| Surr: Toluene-d8 | | 84.3-114 | | **97.6** | %REC | 1 | 01/14/2016 12:22 | 115642 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-025
**Client Sample ID:** SCI-75A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 14:20

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.2** | % | 1 | 01/15/2016 17:25 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **9.50** | mg/Kg-dry | 1 | 01/18/2016 19:55 | 115661 |
| Barium | NELAP | 0.25 | | **197** | mg/Kg-dry | 1 | 01/18/2016 19:55 | 115661 |
| Cadmium | NELAP | 0.20 | | **0.59** | mg/Kg-dry | 1 | 01/18/2016 19:55 | 115661 |
| Chromium | NELAP | 0.50 | | **17.2** | mg/Kg-dry | 1 | 01/18/2016 19:55 | 115661 |
| Lead | NELAP | 1.50 | | **121** | mg/Kg-dry | 1 | 01/18/2016 19:55 | 115661 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/18/2016 19:55 | 115661 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/18/2016 19:55 | 115661 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.301** | mg/Kg-dry | 1 | 01/15/2016 11:20 | 115632 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0415 | | **ND** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Anthracene | NELAP | 0.0415 | | **ND** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0415 | | **0.0797** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0415 | | **0.0820** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0415 | | **0.113** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0415 | J | **0.032** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Chrysene | NELAP | 0.0415 | | **0.0813** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0415 | | **ND** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Fluoranthene | NELAP | 0.0415 | | **0.168** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Fluorene | NELAP | 0.0415 | | **ND** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Pyrene | NELAP | 0.0415 | | **0.158** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| TPH-DRO (C10 - C21) | | 14.6 | J | **9.7** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| TPH-ORO (C21 - C35) | | 14.6 | J | **11** | mg/Kg-dry | 1 | 01/18/2016 17:23 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **51.2** | %REC | 1 | 01/18/2016 17:23 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **52.0** | %REC | 1 | 01/18/2016 17:23 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **68.5** | %REC | 1 | 01/18/2016 17:23 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,1-Dichloro-2-propanone | | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-025 **Client Sample ID:** SCI-75A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 14:20

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 1-Chlorobutane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 2-Butanone | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 2-Chlorotoluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 2-Hexanone | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 2-Nitropropane | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 4-Chlorotoluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Acetone | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Acetonitrile | NELAP | 85.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Acrolein | NELAP | 85.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Acrylonitrile | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Allyl chloride | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Benzene | NELAP | 0.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Bromobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Bromochloromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Bromodichloromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Bromoform | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Bromomethane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Carbon disulfide | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Carbon tetrachloride | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Chlorobenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Chloroethane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Chloroform | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Chloromethane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Cyclohexanone | | 85.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Dibromochloromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Dibromomethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Dichlorodifluoromethane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Diisopropyl ether | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Ethyl ether | NELAP | 4.3 | J | **2.6** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Ethyl methacrylate | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Ethylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Ethyl-tert-butyl ether | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Hexachlorobutadiene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Hexachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Iodomethane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Isopropylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| m,p-Xylenes | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Methacrylonitrile | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-025
**Client Sample ID:** SCI-75A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 14:20

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Methylacrylate | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Methylene chloride | NELAP | 4.3 | J | **2.3** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Naphthalene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| n-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| n-Heptane | | 17.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| n-Hexane | | 17.0 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Nitrobenzene | NELAP | 85.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| n-Propylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| o-Xylene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Pentachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| p-Isopropyltoluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Propionitrile | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| sec-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Styrene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| tert-Amyl methyl ether | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| tert-Butyl alcohol | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| tert-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Tetrachloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Tetrahydrofuran | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Toluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| TPH - GRO (C6 - C10) | | 426 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Trichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Trichlorofluoromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Vinyl acetate | NELAP | 42.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Xylenes, Total | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:19 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.4** | %REC | 1 | 01/15/2016 7:19 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **112.6** | %REC | 1 | 01/15/2016 7:19 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **106.3** | %REC | 1 | 01/15/2016 7:19 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-026
**Client Sample ID:** SCI-75B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 14:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.3** | % | 1 | 01/15/2016 17:25 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **4.65** | mg/Kg-dry | 1 | 01/18/2016 20:01 | 115661 |
| Barium | NELAP | 0.24 | | **75.5** | mg/Kg-dry | 1 | 01/18/2016 20:01 | 115661 |
| Cadmium | NELAP | 0.19 | J | **0.11** | mg/Kg-dry | 1 | 01/18/2016 20:01 | 115661 |
| Chromium | NELAP | 0.47 | | **19.8** | mg/Kg-dry | 1 | 01/18/2016 20:01 | 115661 |
| Lead | NELAP | 1.42 | | **9.98** | mg/Kg-dry | 1 | 01/18/2016 20:01 | 115661 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/18/2016 20:01 | 115661 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/18/2016 20:01 | 115661 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.025** | mg/Kg-dry | 1 | 01/15/2016 11:22 | 115632 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Anthracene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Chrysene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Fluoranthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Fluorene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Pyrene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| TPH-DRO (C10 - C21) | | 15.0 | J | **7.9** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| TPH-ORO (C21 - C35) | | 15.0 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 23:39 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **63.7** | %REC | 1 | 01/15/2016 23:39 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.2** | %REC | 1 | 01/15/2016 23:39 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **92.9** | %REC | 1 | 01/15/2016 23:39 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,1-Dichloro-2-propanone | | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.4 | J | **2.0** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-026 **Client Sample ID:** SCI-75B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 14:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 1-Chlorobutane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 2-Butanone | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 2-Chlorotoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 2-Hexanone | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 2-Nitropropane | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 4-Chlorotoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Acetone | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Acetonitrile | NELAP | 88.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Acrolein | NELAP | 88.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Acrylonitrile | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Allyl chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Benzene | NELAP | 0.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Bromobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Bromochloromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Bromodichloromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Bromoform | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Bromomethane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Carbon disulfide | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Carbon tetrachloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Chlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Chloroethane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Chloroform | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Chloromethane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Cyclohexanone | | 88.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Dibromochloromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Dibromomethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Dichlorodifluoromethane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Diisopropyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Ethyl ether | NELAP | 4.4 | J | **1.4** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Ethyl methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Ethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Ethyl-tert-butyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Hexachlorobutadiene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Hexachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Iodomethane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Isopropylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| m,p-Xylenes | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Methacrylonitrile | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-026 **Client Sample ID:** SCI-75B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 14:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Methylacrylate | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Methylene chloride | NELAP | 4.4 | J | **1.4** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Naphthalene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| n-Heptane | | 17.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| n-Hexane | | 17.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Nitrobenzene | NELAP | 88.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Propionitrile | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| tert-Butyl alcohol | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Tetrahydrofuran | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| TPH - GRO (C6 - C10) | | 442 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Vinyl acetate | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 7:45 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **106.4** | %REC | 1 | 01/15/2016 7:45 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **96.8** | %REC | 1 | 01/15/2016 7:45 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **96.3** | %REC | 1 | 01/15/2016 7:45 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-027 **Client Sample ID:** SCI-77A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 14:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.4** | % | 1 | 01/15/2016 17:48 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **13.6** | mg/Kg-dry | 1 | 01/18/2016 20:07 | 115661 |
| Barium | NELAP | 0.24 | | **179** | mg/Kg-dry | 1 | 01/18/2016 20:07 | 115661 |
| Cadmium | NELAP | 0.19 | | **0.39** | mg/Kg-dry | 1 | 01/18/2016 20:07 | 115661 |
| Chromium | NELAP | 0.48 | | **22.0** | mg/Kg-dry | 1 | 01/18/2016 20:07 | 115661 |
| Lead | NELAP | 1.44 | | **100** | mg/Kg-dry | 1 | 01/18/2016 20:07 | 115661 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/18/2016 20:07 | 115661 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/18/2016 20:07 | 115661 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.112** | mg/Kg-dry | 1 | 01/15/2016 11:25 | 115632 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.205 | | **ND** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Anthracene | NELAP | 0.205 | J | **0.17** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Benzo(a)anthracene | NELAP | 0.205 | | **0.740** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Benzo(a)pyrene | NELAP | 0.205 | | **0.650** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.205 | | **0.932** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.205 | | **0.298** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Chrysene | NELAP | 0.205 | | **0.703** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.205 | | **ND** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Fluoranthene | NELAP | 0.205 | | **1.53** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Fluorene | NELAP | 0.205 | | **ND** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Pyrene | NELAP | 0.205 | | **1.38** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| TPH-DRO (C10 - C21) | | 72.4 | | **ND** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| TPH-ORO (C21 - C35) | | 72.4 | J | **45** | mg/Kg-dry | 5 | 01/19/2016 12:50 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **50.9** | %REC | 5 | 01/19/2016 12:50 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **50.6** | %REC | 5 | 01/19/2016 12:50 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **70.0** | %REC | 5 | 01/19/2016 12:50 | 115616 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,1-Dichloro-2-propanone | | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-027 **Client Sample ID:** SCI-77A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 14:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,2-Dichloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 1-Chlorobutane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 2-Butanone | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 2-Chlorotoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 2-Hexanone | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 2-Nitropropane | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 4-Chlorotoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Acetone | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Acetonitrile | NELAP | 92.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Acrolein | NELAP | 92.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Acrylonitrile | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Allyl chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Benzene | NELAP | 0.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Bromobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Bromochloromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Bromodichloromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Bromoform | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Bromomethane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Carbon disulfide | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Carbon tetrachloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Chlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Chloroethane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Chloroform | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Chloromethane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Cyclohexanone | | 92.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Dibromochloromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Dibromomethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Dichlorodifluoromethane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Diisopropyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Ethyl ether | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Ethyl methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Ethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Ethyl-tert-butyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Hexachlorobutadiene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Hexachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Iodomethane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Isopropylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| m,p-Xylenes | NELAP | 4.6 | J | **2.9** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-027 **Client Sample ID:** SCI-77A (0-3)

**Matrix:** SOLID **Collection Date:** 01/13/2016 14:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Methylacrylate | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Naphthalene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| n-Heptane | | 18.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| n-Hexane | | 18.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Nitrobenzene | NELAP | 92.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Propionitrile | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| tert-Butyl alcohol | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Tetrahydrofuran | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Toluene | NELAP | 4.6 | J | **1.7** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| TPH - GRO (C6 - C10) | | 463 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Vinyl acetate | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Xylenes, Total | NELAP | 4.6 | J | **2.9** | µg/Kg-dry | 1 | 01/15/2016 8:11 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.1** | %REC | 1 | 01/15/2016 8:11 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.3** | %REC | 1 | 01/15/2016 8:11 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **99.8** | %REC | 1 | 01/15/2016 8:11 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-028
**Client Sample ID:** SCI-77B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/13/2016 15:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **22.1** | % | 1 | 01/15/2016 17:48 | R213852 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **4.78** | mg/Kg-dry | 1 | 01/18/2016 20:13 | 115661 |
| Barium | NELAP | 0.24 | | **91.6** | mg/Kg-dry | 1 | 01/18/2016 20:13 | 115661 |
| Cadmium | NELAP | 0.19 | J | **0.15** | mg/Kg-dry | 1 | 01/18/2016 20:13 | 115661 |
| Chromium | NELAP | 0.48 | | **18.1** | mg/Kg-dry | 1 | 01/18/2016 20:13 | 115661 |
| Lead | NELAP | 1.44 | | **8.88** | mg/Kg-dry | 1 | 01/18/2016 20:13 | 115661 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/18/2016 20:13 | 115661 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/18/2016 20:13 | 115661 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.025** | mg/Kg-dry | 1 | 01/15/2016 11:27 | 115632 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Anthracene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Benzo(a)anthracene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Benzo(a)pyrene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Benzo(b)fluoranthene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Benzo(k)fluoranthene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Chrysene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Dibenzo(a,h)anthracene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Fluoranthene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Fluorene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Pyrene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| TPH-DRO (C10 - C21) | | 15.2 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| TPH-ORO (C21 - C35) | | 15.2 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 14:30 | 115616 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **54.7** | %REC | 1 | 01/15/2016 14:30 | 115616 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **58.3** | %REC | 1 | 01/15/2016 14:30 | 115616 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **89.5** | %REC | 1 | 01/15/2016 14:30 | 115616 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,1-Dichloro-2-propanone | | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,2,3-Trichloropropane | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-028 **Client Sample ID:** SCI-77B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 15:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 2-Butanone | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 2-Hexanone | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 2-Nitropropane | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| 4-Methyl-2-pentanone | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Acetone | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Acetonitrile | NELAP | 94.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Acrolein | NELAP | 94.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Acrylonitrile | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Bromomethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Chloroethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Chloromethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Cyclohexanone | | 94.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Dichlorodifluoromethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Iodomethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Methacrylonitrile | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-028 **Client Sample ID:** SCI-77B (15-20)

**Matrix:** SOLID **Collection Date:** 01/13/2016 15:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Methylacrylate | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Methylene chloride | NELAP | 4.7 | J | **1.4** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Naphthalene | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| n-Heptane | | 18.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| n-Hexane | | 18.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Nitrobenzene | NELAP | 94.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Propionitrile | NELAP | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| tert-Butyl alcohol | NELAP | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Tetrahydrofuran | NELAP | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| TPH - GRO (C6 - C10) | | 474 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Vinyl acetate | NELAP | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/15/2016 8:37 | 115652 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.0** | %REC | 1 | 01/15/2016 8:37 | 115652 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **97.8** | %REC | 1 | 01/15/2016 8:37 | 115652 |
| Surr: Toluene-d8 | | 86-116 | | **99.0** | %REC | 1 | 01/15/2016 8:37 | 115652 |

*Allowable Marginal Exceedance of pentachloroethane and tetrachloroethene in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-029 **Client Sample ID:** EB-6

**Matrix:** AQUEOUS **Collection Date:** 01/13/2016 15:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Acetone | NELAP | 25.0 | J | **13** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010697-029 **Client Sample ID:** EB-6

**Matrix:** AQUEOUS **Collection Date:** 01/13/2016 15:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010697
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010697-029
**Client Sample ID:** EB-6
**Matrix:** AQUEOUS
**Collection Date:** 01/13/2016 15:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/14/2016 12:49 | 115642 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **98.6** | %REC | 1 | 01/14/2016 12:49 | 115642 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **100.5** | %REC | 1 | 01/14/2016 12:49 | 115642 |
| Surr: Toluene-d8 | | 84.3-114 | | **98.9** | %REC | 1 | 01/14/2016 12:49 | 115642 |

# Quality Control Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697
**Report Date:** 19-Jan-16

## EPA SW846 3550C, 5035A, ASTM D2974

**Batch** R213852 **SampType:** LCS Units **%**
SampID: LCS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 01/15/2016 |

**Batch** R213852 **SampType:** LCSQC Units **%**
SampID: LCSQC

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 01/15/2016 |

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115618 **SampType:** MBLK Units **mg/Kg-dry**
SampID: MBLK-115618

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 01/15/2016 |
| Barium | 0.25 | | **< 0.25** | 0.2500 | 0 | 0 | -100 | 100 | 01/15/2016 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 01/18/2016 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 01/15/2016 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/18/2016 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/15/2016 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 01/15/2016 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 01/15/2016 |
| Silver | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/15/2016 |

**Batch** 115618 **SampType:** LCS Units **mg/Kg-dry**
SampID: LCS-115618

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **44.7** | 50.00 | 0 | 89.3 | 85 | 115 | 01/15/2016 |
| Barium | 0.25 | | **184** | 200.0 | 0 | 91.8 | 85 | 115 | 01/15/2016 |
| Cadmium | 0.20 | | **4.57** | 5.000 | 0 | 91.4 | 85 | 115 | 01/15/2016 |
| Cadmium | 0.20 | | **4.85** | 5.000 | 0 | 97.0 | 85 | 115 | 01/18/2016 |
| Chromium | 0.50 | | **19.7** | 20.00 | 0 | 98.4 | 85 | 115 | 01/15/2016 |
| Chromium | 0.50 | | **20.5** | 20.00 | 0 | 102.4 | 85 | 115 | 01/18/2016 |
| Lead | 1.50 | | **49.4** | 50.00 | 0 | 98.8 | 85 | 115 | 01/15/2016 |
| Selenium | 4.00 | | **45.6** | 50.00 | 0 | 91.2 | 85 | 115 | 01/15/2016 |
| Silver | 0.50 | | **4.41** | 5.000 | 0 | 88.2 | 85 | 115 | 01/15/2016 |

**Batch** 115618 **SampType:** MS Units **mg/Kg-dry**
SampID: 16010697-005AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.45 | | **49.3** | 49.02 | 7.931 | 84.5 | 75 | 125 | 01/15/2016 |
| Barium | 0.25 | | **262** | 196.1 | 67.79 | 99.0 | 75 | 125 | 01/15/2016 |
| Cadmium | 0.20 | | **4.56** | 4.902 | 0.06863 | 91.6 | 75 | 125 | 01/15/2016 |
| Chromium | 0.49 | | **59.1** | 19.61 | 39.40 | 100.7 | 75 | 125 | 01/18/2016 |
| Lead | 1.47 | | **62.4** | 49.02 | 13.76 | 99.3 | 75 | 125 | 01/15/2016 |
| Selenium | 3.92 | | **41.4** | 49.02 | 0 | 84.5 | 75 | 125 | 01/15/2016 |
| Silver | 0.49 | | **4.18** | 4.902 | 0 | 85.2 | 75 | 125 | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115618 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**

SampID: 16010697-005AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.45 | | **50.4** | 49.02 | 7.931 | 86.6 | 49.34 | 2.05 | 01/15/2016 |
| Barium | 0.25 | | **254** | 196.1 | 67.79 | 95.2 | 261.9 | 2.89 | 01/15/2016 |
| Cadmium | 0.20 | | **4.51** | 4.902 | 0.06863 | 90.6 | 4.559 | 1.08 | 01/15/2016 |
| Chromium | 0.49 | | **63.9** | 19.61 | 39.40 | 124.8 | 59.15 | 7.70 | 01/18/2016 |
| Lead | 1.47 | | **62.3** | 49.02 | 13.76 | 99.0 | 62.42 | 0.19 | 01/15/2016 |
| Selenium | 3.92 | | **42.3** | 49.02 | 0 | 86.2 | 41.43 | 1.99 | 01/15/2016 |
| Silver | 0.49 | | **4.19** | 4.902 | 0 | 85.4 | 4.176 | 0.23 | 01/15/2016 |

**Batch** 115618 **SampType:** MS Units **mg/Kg-dry**

SampID: 16010697-018AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.31 | | **45.4** | 46.30 | 7.407 | 82.1 | 75 | 125 | 01/15/2016 |
| Barium | 0.23 | | **240** | 185.2 | 85.22 | 83.8 | 75 | 125 | 01/15/2016 |
| Cadmium | 0.19 | | **4.23** | 4.630 | 0.2037 | 87.0 | 75 | 125 | 01/15/2016 |
| Chromium | 0.46 | | **51.9** | 18.52 | 33.19 | 101.2 | 75 | 125 | 01/15/2016 |
| Lead | 1.39 | | **57.1** | 46.30 | 17.60 | 85.3 | 75 | 125 | 01/15/2016 |
| Selenium | 3.70 | | **38.7** | 46.30 | 0 | 83.5 | 75 | 125 | 01/15/2016 |
| Silver | 0.46 | | **3.79** | 4.630 | 0 | 81.8 | 75 | 125 | 01/15/2016 |

**Batch** 115618 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**

SampID: 16010697-018AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.31 | | **47.5** | 46.30 | 7.407 | 86.7 | 45.44 | 4.54 | 01/15/2016 |
| Barium | 0.23 | | **241** | 185.2 | 85.22 | 84.4 | 240.5 | 0.42 | 01/15/2016 |
| Cadmium | 0.19 | | **4.32** | 4.630 | 0.2037 | 89.0 | 4.231 | 2.16 | 01/15/2016 |
| Chromium | 0.46 | S | **60.7** | 18.52 | 33.19 | 148.4 | 51.93 | 15.56 | 01/15/2016 |
| Lead | 1.39 | | **58.4** | 46.30 | 17.60 | 88.1 | 57.10 | 2.24 | 01/15/2016 |
| Selenium | 3.70 | | **39.1** | 46.30 | 0 | 84.4 | 38.67 | 1.07 | 01/15/2016 |
| Silver | 0.46 | | **3.83** | 4.630 | 0 | 82.8 | 3.787 | 1.22 | 01/15/2016 |

**Batch** 115661 **SampType:** MBLK Units **mg/Kg-dry**

SampID: MBLK-115661

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 01/18/2016 |
| Barium | 0.25 | J | **0.13** | 0.2500 | 0 | 52.0 | -100 | 100 | 01/18/2016 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 01/18/2016 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/18/2016 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 01/18/2016 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 01/18/2016 |
| Silver | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/18/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697
**Report Date:** 19-Jan-16

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115661 **SampType:** LCS Units **mg/Kg-dry**
SampID: LCS-115661

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **45.8** | 50.00 | 0 | 91.6 | 85 | 115 | 01/18/2016 |
| Barium | 0.25 | | **194** | 200.0 | 0 | 97.0 | 85 | 115 | 01/18/2016 |
| Cadmium | 0.20 | | **4.78** | 5.000 | 0 | 95.6 | 85 | 115 | 01/18/2016 |
| Chromium | 0.50 | | **20.2** | 20.00 | 0 | 101.0 | 85 | 115 | 01/18/2016 |
| Lead | 1.50 | | **50.8** | 50.00 | 0 | 101.5 | 85 | 115 | 01/18/2016 |
| Selenium | 4.00 | | **47.2** | 50.00 | 0 | 94.4 | 85 | 115 | 01/18/2016 |
| Silver | 0.50 | | **4.63** | 5.000 | 0 | 92.6 | 85 | 115 | 01/18/2016 |

**Batch** 115661 **SampType:** MS Units **mg/Kg-dry**
SampID: 16010786-002AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.40 | | **46.2** | 48.08 | 2.654 | 90.7 | 75 | 125 | 01/19/2016 |
| Barium | 0.24 | | **278** | 192.3 | 121.9 | 81.2 | 75 | 125 | 01/19/2016 |
| Cadmium | 0.19 | | **4.80** | 4.808 | 0.2308 | 95.0 | 75 | 125 | 01/19/2016 |
| Chromium | 0.48 | | **31.2** | 19.23 | 11.97 | 99.9 | 75 | 125 | 01/19/2016 |
| Lead | 1.44 | | **55.2** | 48.08 | 6.798 | 100.6 | 75 | 125 | 01/19/2016 |
| Silver | 0.48 | | **4.33** | 4.808 | 0 | 90.0 | 75 | 125 | 01/19/2016 |

**Batch** 115661 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**
SampID: 16010786-002AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.40 | | **47.5** | 48.08 | 2.654 | 93.3 | 46.24 | 2.69 | 01/19/2016 |
| Barium | 0.24 | | **291** | 192.3 | 121.9 | 88.2 | 278.1 | 4.69 | 01/19/2016 |
| Cadmium | 0.19 | | **4.75** | 4.808 | 0.2308 | 94.0 | 4.798 | 1.01 | 01/19/2016 |
| Chromium | 0.48 | | **31.4** | 19.23 | 11.97 | 100.9 | 31.18 | 0.61 | 01/19/2016 |
| Lead | 1.44 | | **54.6** | 48.08 | 6.798 | 99.4 | 55.17 | 1.03 | 01/19/2016 |
| Silver | 0.48 | | **4.31** | 4.808 | 0 | 89.6 | 4.327 | 0.45 | 01/19/2016 |

**Batch** 115661 **SampType:** MS Units **mg/Kg-dry**
SampID: 16010787-003AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.45 | | **49.3** | 49.02 | 4.912 | 90.5 | 75 | 125 | 01/19/2016 |
| Barium | 0.25 | | **265** | 196.1 | 81.15 | 93.9 | 75 | 125 | 01/19/2016 |
| Cadmium | 0.20 | | **4.77** | 4.902 | 0.1765 | 93.8 | 75 | 125 | 01/19/2016 |
| Chromium | 0.49 | | **40.3** | 19.61 | 19.87 | 104.0 | 75 | 125 | 01/19/2016 |
| Lead | 1.47 | | **58.6** | 49.02 | 10.85 | 97.3 | 75 | 125 | 01/19/2016 |
| Silver | 0.49 | | **4.38** | 4.902 | 0 | 89.4 | 75 | 125 | 01/19/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3050B, 6010B, METALS BY ICP

**Batch 115661** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **20**

SampID: 16010787-003AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.45 | | **49.6** | 49.02 | 4.912 | 91.2 | 49.27 | 0.65 | 01/19/2016 |
| Barium | 0.25 | | **273** | 196.1 | 81.15 | 98.0 | 265.3 | 2.99 | 01/19/2016 |
| Cadmium | 0.20 | | **4.91** | 4.902 | 0.1765 | 96.6 | 4.775 | 2.83 | 01/19/2016 |
| Chromium | 0.49 | | **39.8** | 19.61 | 19.87 | 101.6 | 40.27 | 1.18 | 01/19/2016 |
| Lead | 1.47 | | **61.5** | 49.02 | 10.85 | 103.3 | 58.57 | 4.88 | 01/19/2016 |
| Silver | 0.49 | | **4.42** | 4.902 | 0 | 90.2 | 4.382 | 0.89 | 01/19/2016 |

## SW-846 7471B

**Batch 115620** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115620

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **< 0.010** | 0.01000 | 0 | 0 | -100 | 100 | 01/15/2016 |

**Batch 115620** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115620

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.249** | 0.2500 | 0 | 99.5 | 85 | 115 | 01/15/2016 |

**Batch 115620** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010697-005AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.011 | | **0.318** | 0.2851 | 0.02573 | 102.5 | 75 | 125 | 01/15/2016 |

**Batch 115620** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**

SampID: 16010697-005AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.011 | | **0.304** | 0.2851 | 0.02573 | 97.6 | 0.3180 | 4.50 | 01/15/2016 |

**Batch 115620** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010697-015AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.339** | 0.2887 | 0.03125 | 106.7 | 75 | 125 | 01/15/2016 |

**Batch 115620** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**

SampID: 16010697-015AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.337** | 0.2887 | 0.03125 | 106.0 | 0.3395 | 0.68 | 01/15/2016 |

**Batch 115632** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115632

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **< 0.010** | 0.01000 | 0 | 0 | -100 | 100 | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 7471B

**Batch** 115632 **SampType:** LCS Units **mg/Kg**

SampID: LCS-115632

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.254** | 0.2500 | 0 | 101.5 | 85 | 115 | 01/15/2016 |

**Batch** 115632 **SampType:** MS Units **mg/Kg-dry**

SampID: 16010786-002AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.366** | 0.3070 | 0.01931 | 113.0 | 75 | 125 | 01/15/2016 |

**Batch** 115632 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **15**

SampID: 16010786-002AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.363** | 0.3070 | 0.01931 | 112.0 | 0.3662 | 0.84 | 01/15/2016 |

**Batch** 115632 **SampType:** MS Units **mg/Kg**

SampID: 16010787-004AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.273** | 0.2500 | 0.01500 | 103.4 | 75 | 125 | 01/15/2016 |

**Batch** 115632 **SampType:** MSD Units **mg/Kg** RPD Limit **15**

SampID: 16010787-004AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.285** | 0.2500 | 0.01500 | 108.2 | 0.2734 | 4.31 | 01/15/2016 |

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115592 **SampType:** MBLK Units **mg/Kg**

SampID: MBLK-115592

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Anthracene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Benzo(a)anthracene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Benzo(a)pyrene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Chrysene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Fluoranthene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Fluorene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Pyrene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| TPH-DRO (C10 - C21) | 12.0 | J | **6.4** | | | | | | 01/14/2016 |
| TPH-ORO (C21 - C35) | 12.0 | | **ND** | | | | | | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.593** | 0.8350 | | 71.0 | 42.6 | 97.2 | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.542** | 0.8350 | | 64.9 | 16.7 | 118 | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.660** | 0.8350 | | 79.1 | 50.1 | 111 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115592** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115592

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **1.20** | 1.670 | 0 | 71.7 | 56.4 | 104 | 01/14/2016 |
| Anthracene | 0.0340 | | **1.12** | 1.670 | 0 | 66.9 | 55.9 | 101 | 01/14/2016 |
| Benzo(a)anthracene | 0.0340 | | **1.16** | 1.670 | 0 | 69.6 | 51.7 | 107 | 01/14/2016 |
| Benzo(a)pyrene | 0.0340 | | **1.22** | 1.670 | 0 | 73.2 | 57.2 | 114 | 01/14/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **1.20** | 1.670 | 0 | 71.8 | 45.3 | 116 | 01/14/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **1.25** | 1.670 | 0 | 75.1 | 58.2 | 114 | 01/14/2016 |
| Chrysene | 0.0340 | | **1.22** | 1.670 | 0 | 72.9 | 58.9 | 102 | 01/14/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **1.30** | 1.670 | 0 | 77.9 | 48.9 | 123 | 01/14/2016 |
| Fluoranthene | 0.0340 | | **1.21** | 1.670 | 0 | 72.6 | 54.9 | 108 | 01/14/2016 |
| Fluorene | 0.0340 | | **1.15** | 1.670 | 0 | 69.0 | 58 | 101 | 01/14/2016 |
| Pyrene | 0.0340 | | **1.24** | 1.670 | 0 | 74.2 | 53.4 | 107 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.548** | 0.8350 | | 65.7 | 42.6 | 97.2 | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.744** | 0.8350 | | 89.2 | 16.7 | 118 | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.631** | 0.8350 | | 75.6 | 50.1 | 111 | 01/14/2016 |

**Batch 115592** **SampType: LCSG** Units **mg/Kg**

SampID: LCSDRO-115592

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 12.0 | | **28.4** | 33.40 | 0 | 85.0 | 53.7 | 103 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.591** | 0.8350 | | 70.8 | 42.6 | 97.2 | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.547** | 0.8350 | | 65.5 | 16.7 | 118 | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.677** | 0.8350 | | 81.1 | 50.1 | 111 | 01/14/2016 |

**Batch 115592** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010608-025AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 15.0 | | **33.4** | 41.64 | 8.425 | 59.9 | 34.5 | 160 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.386** | 1.041 | | 37.0 | 12 | 133 | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.579** | 1.041 | | 55.7 | 30.9 | 115 | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.837** | 1.041 | | 80.4 | 31.5 | 137 | 01/14/2016 |

**Batch 115592** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **30**

SampID: 16010608-025AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 14.9 | | **35.4** | 41.55 | 8.425 | 65.0 | 33.36 | 6.03 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.591** | 1.039 | | 56.9 | | | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.644** | 1.039 | | 62.0 | | | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.886** | 1.039 | | 85.2 | | | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115616 **SampType:** MBLK Units **mg/Kg**

SampID: MBLK-115616

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Anthracene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Benzo(a)anthracene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Benzo(a)pyrene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Chrysene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Fluoranthene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Fluorene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| Pyrene | 0.0340 | | **ND** | | | | | | 01/15/2016 |
| TPH-DRO (C10 - C21) | 12.0 | J | **6.5** | | | | | | 01/15/2016 |
| TPH-ORO (C21 - C35) | 12.0 | | **ND** | | | | | | 01/15/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.715** | 0.8350 | | 85.6 | 42.6 | 97.2 | 01/15/2016 |
| Surr: Nitrobenzene-d5 | | | **0.648** | 0.8350 | | 77.6 | 16.7 | 118 | 01/15/2016 |
| Surr: p-Terphenyl-d14 | | | **0.853** | 0.8350 | | 102.2 | 50.1 | 111 | 01/15/2016 |

**Batch** 115616 **SampType:** LCS Units **mg/Kg**

SampID: LCS-115616

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **1.52** | 1.670 | 0 | 90.9 | 56.4 | 104 | 01/15/2016 |
| Anthracene | 0.0340 | | **1.42** | 1.670 | 0 | 85.1 | 55.9 | 101 | 01/15/2016 |
| Benzo(a)anthracene | 0.0340 | | **1.47** | 1.670 | 0 | 88.0 | 51.7 | 107 | 01/15/2016 |
| Benzo(a)pyrene | 0.0340 | | **1.56** | 1.670 | 0 | 93.2 | 57.2 | 114 | 01/15/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **1.54** | 1.670 | 0 | 92.4 | 45.3 | 116 | 01/15/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **1.56** | 1.670 | 0 | 93.1 | 58.2 | 114 | 01/15/2016 |
| Chrysene | 0.0340 | | **1.46** | 1.670 | 0 | 87.3 | 58.9 | 102 | 01/15/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **1.68** | 1.670 | 0 | 100.7 | 48.9 | 123 | 01/15/2016 |
| Fluoranthene | 0.0340 | | **1.57** | 1.670 | 0 | 93.9 | 54.9 | 108 | 01/15/2016 |
| Fluorene | 0.0340 | | **1.45** | 1.670 | 0 | 86.7 | 58 | 101 | 01/15/2016 |
| Pyrene | 0.0340 | | **1.59** | 1.670 | 0 | 95.2 | 53.4 | 107 | 01/15/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.667** | 0.8350 | | 79.9 | 42.6 | 97.2 | 01/15/2016 |
| Surr: Nitrobenzene-d5 | | | **0.889** | 0.8350 | | 106.5 | 16.7 | 118 | 01/15/2016 |
| Surr: p-Terphenyl-d14 | | | **0.775** | 0.8350 | | 92.9 | 50.1 | 111 | 01/15/2016 |

**Batch** 115616 **SampType:** LCSG Units **mg/Kg**

SampID: LCSDRO-115616

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 12.0 | | **29.9** | 33.40 | 0 | 89.6 | 53.7 | 103 | 01/15/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.614** | 0.8350 | | 73.6 | 42.6 | 97.2 | 01/15/2016 |
| Surr: Nitrobenzene-d5 | | | **0.570** | 0.8350 | | 68.2 | 16.7 | 118 | 01/15/2016 |
| Surr: p-Terphenyl-d14 | | | **0.800** | 0.8350 | | 95.8 | 50.1 | 111 | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115616** **SampType:** **MS** Units **mg/Kg-dry**

SampID: 16010697-028AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 15.4 | | **35.7** | 42.83 | 0 | 83.5 | 34.5 | 160 | 01/15/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.489** | 1.071 | | 45.7 | 12 | 133 | 01/15/2016 |
| Surr: Nitrobenzene-d5 | | | **0.581** | 1.071 | | 54.3 | 30.9 | 115 | 01/15/2016 |
| Surr: p-Terphenyl-d14 | | | **0.937** | 1.071 | | 87.5 | 31.5 | 137 | 01/15/2016 |

**Batch** **115616** **SampType:** **MSD** Units **mg/Kg-dry** RPD Limit **30**

SampID: 16010697-028AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 15.2 | | **37.9** | 42.42 | 0 | 89.4 | 35.74 | 5.88 | 01/15/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.438** | 1.060 | | 41.3 | | | 01/15/2016 |
| Surr: Nitrobenzene-d5 | | | **0.567** | 1.060 | | 53.5 | | | 01/15/2016 |
| Surr: p-Terphenyl-d14 | | | **0.954** | 1.060 | | 90.0 | | | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115642** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Butanone | 25.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Hexanone | 25.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **ND** | | | | | | 01/14/2016 |
| Acetone | 25.0 | | **ND** | | | | | | 01/14/2016 |
| Acetonitrile | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/14/2016 |
| Acrylonitrile | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Benzene | 2.0 | | **ND** | | | | | | 01/14/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/14/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697
**Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115642** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Chloromethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Chloroprene | 20.0 | | **ND** | | | | | | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Cyclohexanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Diisopropyl ether | 2.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl acetate | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **ND** | | | | | | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Hexachloroethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Iodomethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Methacrylonitrile | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/14/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/14/2016 |
| n-Butyl acetate | 25.0 | | **ND** | | | | | | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/14/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/14/2016 |
| Nitrobenzene | 50.0 | | **ND** | | | | | | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Pentachloroethane | 20.0 | | **ND** | | | | | | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| tert-Amyl methyl ether | 2.0 | | **ND** | | | | | | 01/14/2016 |
| tert-Butyl alcohol | 25.0 | | **ND** | | | | | | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Tetrahydrofuran | 20.0 | | **ND** | | | | | | 01/14/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115642** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Vinyl acetate | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/14/2016 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 01/14/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.4** | 50.00 | | 98.8 | 74.7 | 129 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.4 | 86 | 119 | 01/14/2016 |
| Surr: Toluene-d8 | | | **49.2** | 50.00 | | 98.4 | 84.3 | 114 | 01/14/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697
**Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115642** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **55.3** | 50.00 | 0 | 110.5 | 52.42 | 5.29 | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **53.4** | 50.00 | 0 | 106.7 | 49.64 | 7.22 | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 45.84 | 9.02 | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **52.8** | 50.00 | 0 | 105.6 | 48.95 | 7.53 | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 45.43 | 7.62 | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **103** | 125.0 | 0 | 82.3 | 97.96 | 4.87 | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 47.93 | 7.03 | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **51.3** | 50.00 | 0 | 102.7 | 47.46 | 7.83 | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 49.32 | 7.96 | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 46.24 | 12.58 | 01/14/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **46.9** | 50.00 | 0 | 93.9 | 43.81 | 6.88 | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 48.93 | 6.39 | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 46.84 | 8.27 | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 50.27 | 6.91 | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **45.3** | 50.00 | 0 | 90.7 | 41.74 | 8.25 | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 46.53 | 6.87 | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 50.54 | 7.37 | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 47.84 | 7.12 | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 49.15 | 8.34 | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 50.22 | 8.32 | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.5 | 49.52 | 8.15 | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **47.5** | 50.00 | 0 | 95.1 | 44.94 | 5.62 | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.7 | 48.97 | 7.58 | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 48.62 | 6.51 | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 50.40 | 7.17 | 01/14/2016 |
| 2-Butanone | 25.0 | | **123** | 125.0 | 0 | 98.1 | 117.4 | 4.34 | 01/14/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **51.0** | 50.00 | 0 | 102.0 | 50.59 | 0.77 | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 48.22 | 8.10 | 01/14/2016 |
| 2-Hexanone | 25.0 | | **115** | 125.0 | 0 | 91.8 | 108.2 | 5.96 | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **576** | 500.0 | 0 | 115.2 | 539.0 | 6.61 | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 49.11 | 6.04 | 01/14/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **116** | 125.0 | 0 | 92.7 | 106.7 | 8.29 | 01/14/2016 |
| Acetone | 25.0 | | **125** | 125.0 | 0 | 99.6 | 130.1 | 4.36 | 01/14/2016 |
| Acetonitrile | 50.0 | | **450** | 500.0 | 0 | 89.9 | 421.7 | 6.41 | 01/14/2016 |
| Acrolein | 100 | | **433** | 500.0 | 0 | 86.6 | 444.6 | 2.70 | 01/14/2016 |
| Acrylonitrile | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 46.42 | 4.96 | 01/14/2016 |
| Allyl chloride | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 50.10 | 7.94 | 01/14/2016 |
| Benzene | 2.0 | | **53.0** | 50.00 | 0 | 106.0 | 48.91 | 8.06 | 01/14/2016 |
| Bromobenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 46.58 | 7.58 | 01/14/2016 |
| Bromochloromethane | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 48.27 | 6.47 | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 51.58 | 7.36 | 01/14/2016 |
| Bromoform | 5.0 | | **55.9** | 50.00 | 0 | 111.9 | 52.97 | 5.45 | 01/14/2016 |
| Bromomethane | 10.0 | | **52.8** | 50.00 | 0 | 105.6 | 48.79 | 7.91 | 01/14/2016 |
| Carbon disulfide | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 47.07 | 7.96 | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **56.0** | 50.00 | 0 | 112.0 | 51.85 | 7.71 | 01/14/2016 |
| Chlorobenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 49.47 | 5.27 | 01/14/2016 |
| Chloroethane | 10.0 | | **47.8** | 50.00 | 0 | 95.7 | 43.84 | 8.71 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115642** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 48.15 | 6.61 | 01/14/2016 |
| Chloromethane | 10.0 | | **45.9** | 50.00 | 0 | 91.8 | 40.23 | 13.17 | 01/14/2016 |
| Chloroprene | 20.0 | | **49.1** | 50.00 | 0 | 98.3 | 46.07 | 6.45 | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 48.34 | 7.39 | 01/14/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **57.2** | 50.00 | 0 | 114.3 | 53.77 | 6.09 | 01/14/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **49.0** | 50.00 | 0 | 97.9 | 47.34 | 3.34 | 01/14/2016 |
| Cyclohexanone | 50.0 | | **618** | 500.0 | 0 | 123.6 | 598.5 | 3.20 | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 48.96 | 8.47 | 01/14/2016 |
| Dibromomethane | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 49.96 | 8.88 | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **50.6** | 50.00 | 0 | 101.2 | 44.76 | 12.27 | 01/14/2016 |
| Diisopropyl ether | 2.0 | | **55.2** | 50.00 | 0 | 110.3 | 49.70 | 10.40 | 01/14/2016 |
| Ethyl acetate | 10.0 | | **49.1** | 50.00 | 0 | 98.1 | 45.84 | 6.79 | 01/14/2016 |
| Ethyl ether | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 45.42 | 7.22 | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **50.8** | 50.00 | 0 | 101.6 | 47.42 | 6.84 | 01/14/2016 |
| Ethylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 48.68 | 6.94 | 01/14/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **53.3** | 50.00 | 0 | 106.6 | 48.10 | 10.28 | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 46.90 | 11.55 | 01/14/2016 |
| Hexachloroethane | 10.0 | | **53.3** | 50.00 | 0 | 106.7 | 47.81 | 10.92 | 01/14/2016 |
| Iodomethane | 5.0 | | **61.4** | 50.00 | 0 | 122.7 | 57.08 | 7.21 | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 51.62 | 6.90 | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **106** | 100.0 | 0 | 106.0 | 98.84 | 6.94 | 01/14/2016 |
| Methacrylonitrile | 10.0 | | **50.9** | 50.00 | 0 | 101.8 | 48.32 | 5.22 | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 51.15 | 8.71 | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **54.0** | 50.00 | 0 | 107.9 | 48.63 | 10.37 | 01/14/2016 |
| Methylacrylate | 10.0 | | **54.4** | 50.00 | 0 | 108.8 | 50.18 | 8.11 | 01/14/2016 |
| Methylene chloride | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 47.40 | 6.81 | 01/14/2016 |
| Naphthalene | 10.0 | | **54.4** | 50.00 | 0 | 108.8 | 48.56 | 11.34 | 01/14/2016 |
| n-Butyl acetate | 25.0 | | **47.4** | 50.00 | 0 | 94.9 | 43.98 | 7.57 | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 49.91 | 8.08 | 01/14/2016 |
| n-Heptane | 20.0 | | **55.0** | 50.00 | 0 | 110.0 | 51.58 | 6.40 | 01/14/2016 |
| n-Hexane | 20.0 | | **54.8** | 50.00 | 0 | 109.5 | 50.91 | 7.27 | 01/14/2016 |
| Nitrobenzene | 50.0 | | **370** | 500.0 | 0 | 73.9 | 336.0 | 9.52 | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 48.52 | 6.62 | 01/14/2016 |
| o-Xylene | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 49.54 | 6.65 | 01/14/2016 |
| Pentachloroethane | 20.0 | | **55.6** | 50.00 | 0 | 111.1 | 51.33 | 7.91 | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **56.3** | 50.00 | 0 | 112.6 | 51.76 | 8.40 | 01/14/2016 |
| Propionitrile | 50.0 | | **480** | 500.0 | 0 | 96.0 | 443.7 | 7.85 | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 50.39 | 8.57 | 01/14/2016 |
| Styrene | 5.0 | | **56.3** | 50.00 | 0 | 112.6 | 52.64 | 6.68 | 01/14/2016 |
| tert-Amyl methyl ether | 2.0 | | **55.9** | 50.00 | 0 | 111.7 | 49.69 | 11.69 | 01/14/2016 |
| tert-Butyl alcohol | 25.0 | | **199** | 250.0 | 0 | 79.7 | 181.8 | 9.10 | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 47.22 | 7.62 | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 45.83 | 9.30 | 01/14/2016 |
| Tetrahydrofuran | 20.0 | | **48.7** | 50.00 | 0 | 97.4 | 45.85 | 5.99 | 01/14/2016 |
| Toluene | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 47.07 | 6.57 | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **52.0** | 50.00 | 0 | 103.9 | 48.20 | 7.53 | 01/14/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 48.94 | 5.62 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115642** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **50.7** | 50.00 | 0 | 101.4 | 48.11 | 5.26 | 01/14/2016 |
| Trichloroethene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 48.65 | 8.12 | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **55.0** | 50.00 | 0 | 110.1 | 49.10 | 11.41 | 01/14/2016 |
| Vinyl acetate | 10.0 | | **57.2** | 50.00 | 0 | 114.5 | 51.28 | 10.97 | 01/14/2016 |
| Vinyl chloride | 2.0 | | **52.6** | 50.00 | 0 | 105.3 | 47.79 | 9.66 | 01/14/2016 |
| Xylenes, Total | 5.0 | | **159** | 150.0 | 0 | 105.9 | 148.4 | 6.85 | 01/14/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **104** | 100.0 | 0 | 104.0 | 96.54 | 7.46 | 01/14/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **109** | 100.0 | 0 | 108.9 | 102.7 | 5.87 | 01/14/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **99.7** | 100.0 | 0 | 99.7 | 95.45 | 4.32 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.7** | 50.00 | | 99.4 | | | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.4** | 50.00 | | 98.7 | | | 01/14/2016 |
| Surr: Toluene-d8 | | | **46.7** | 50.00 | | 93.3 | | | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115642** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 81.9 | 115 | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 79.4 | 124 | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **45.8** | 50.00 | 0 | 91.7 | 74.7 | 116 | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **49.0** | 50.00 | 0 | 97.9 | 72.9 | 121 | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **45.4** | 50.00 | 0 | 90.9 | 80.8 | 111 | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **98.0** | 125.0 | 0 | 78.4 | 66.3 | 130 | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **47.9** | 50.00 | 0 | 95.9 | 79.4 | 114 | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **47.5** | 50.00 | 0 | 94.9 | 74.1 | 117 | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 81.7 | 116 | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **46.2** | 50.00 | 0 | 92.5 | 79.7 | 118 | 01/14/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **43.8** | 50.00 | 0 | 87.6 | 77.3 | 112 | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.9** | 50.00 | 0 | 97.9 | 79.9 | 119 | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **46.8** | 50.00 | 0 | 93.7 | 79.3 | 118 | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 78.7 | 115 | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **41.7** | 50.00 | 0 | 83.5 | 76 | 122 | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **46.5** | 50.00 | 0 | 93.1 | 80.8 | 114 | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.1 | 78.3 | 112 | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **47.8** | 50.00 | 0 | 95.7 | 70.6 | 118 | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **49.2** | 50.00 | 0 | 98.3 | 79.6 | 113 | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 77.5 | 115 | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 78.6 | 117 | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **44.9** | 50.00 | 0 | 89.9 | 78.8 | 112 | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **49.0** | 50.00 | 0 | 97.9 | 77.8 | 114 | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **48.6** | 50.00 | 0 | 97.2 | 78.6 | 115 | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 74.9 | 130 | 01/14/2016 |
| 2-Butanone | 25.0 | | **117** | 125.0 | 0 | 93.9 | 70.7 | 136 | 01/14/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **50.6** | 50.00 | 0 | 101.2 | 52.5 | 145 | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 77.4 | 114 | 01/14/2016 |
| 2-Hexanone | 25.0 | | **108** | 125.0 | 0 | 86.5 | 73.3 | 125 | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **539** | 500.0 | 0 | 107.8 | 67.3 | 139 | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 78.3 | 115 | 01/14/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **107** | 125.0 | 0 | 85.3 | 76.3 | 122 | 01/14/2016 |
| Acetone | 25.0 | | **130** | 125.0 | 0 | 104.1 | 56.4 | 147 | 01/14/2016 |
| Acetonitrile | 50.0 | | **422** | 500.0 | 0 | 84.3 | 59.3 | 129 | 01/14/2016 |
| Acrolein | 100 | | **445** | 500.0 | 0 | 88.9 | 1 | 201 | 01/14/2016 |
| Acrylonitrile | 5.0 | | **46.4** | 50.00 | 0 | 92.8 | 74.1 | 128 | 01/14/2016 |
| Allyl chloride | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 71.5 | 123 | 01/14/2016 |
| Benzene | 2.0 | | **48.9** | 50.00 | 0 | 97.8 | 80 | 114 | 01/14/2016 |
| Bromobenzene | 5.0 | | **46.6** | 50.00 | 0 | 93.2 | 73.2 | 118 | 01/14/2016 |
| Bromochloromethane | 5.0 | | **48.3** | 50.00 | 0 | 96.5 | 73.3 | 121 | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 81.6 | 121 | 01/14/2016 |
| Bromoform | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 83.1 | 127 | 01/14/2016 |
| Bromomethane | 10.0 | | **48.8** | 50.00 | 0 | 97.6 | 44.4 | 154 | 01/14/2016 |
| Carbon disulfide | 5.0 | | **47.1** | 50.00 | 0 | 94.1 | 73.2 | 118 | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 79.4 | 130 | 01/14/2016 |
| Chlorobenzene | 5.0 | | **49.5** | 50.00 | 0 | 98.9 | 81.4 | 110 | 01/14/2016 |
| Chloroethane | 10.0 | | **43.8** | 50.00 | 0 | 87.7 | 52.1 | 137 | 01/14/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16010697

**Client Project:** NGA 2015-0461.21

**Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115642** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **48.2** | 50.00 | 0 | 96.3 | 82.7 | 116 | 01/14/2016 |
| Chloromethane | 10.0 | | **40.2** | 50.00 | 0 | 80.5 | 48.2 | 144 | 01/14/2016 |
| Chloroprene | 20.0 | | **46.1** | 50.00 | 0 | 92.1 | 80.6 | 126 | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **48.3** | 50.00 | 0 | 96.7 | 78.2 | 116 | 01/14/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 83 | 119 | 01/14/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **47.3** | 50.00 | 0 | 94.7 | 60.7 | 137 | 01/14/2016 |
| Cyclohexanone | 50.0 | | **598** | 500.0 | 0 | 119.7 | 54.2 | 145 | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **49.0** | 50.00 | 0 | 97.9 | 81.2 | 121 | 01/14/2016 |
| Dibromomethane | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 78.3 | 118 | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **44.8** | 50.00 | 0 | 89.5 | 20.6 | 154 | 01/14/2016 |
| Diisopropyl ether | 2.0 | | **49.7** | 50.00 | 0 | 99.4 | 73.1 | 116 | 01/14/2016 |
| Ethyl acetate | 10.0 | | **45.8** | 50.00 | 0 | 91.7 | 73.1 | 116 | 01/14/2016 |
| Ethyl ether | 5.0 | | **45.4** | 50.00 | 0 | 90.8 | 75.2 | 109 | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 80.1 | 113 | 01/14/2016 |
| Ethylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 77.2 | 113 | 01/14/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **48.1** | 50.00 | 0 | 96.2 | 75 | 118 | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **46.9** | 50.00 | 0 | 93.8 | 77.3 | 123 | 01/14/2016 |
| Hexachloroethane | 10.0 | | **47.8** | 50.00 | 0 | 95.6 | 74.6 | 117 | 01/14/2016 |
| Iodomethane | 5.0 | | **57.1** | 50.00 | 0 | 114.2 | 61.3 | 140 | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 81.3 | 114 | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **98.8** | 100.0 | 0 | 98.8 | 79.6 | 113 | 01/14/2016 |
| Methacrylonitrile | 10.0 | | **48.3** | 50.00 | 0 | 96.6 | 77.2 | 125 | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 74.2 | 121 | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **48.6** | 50.00 | 0 | 97.3 | 76.8 | 117 | 01/14/2016 |
| Methylacrylate | 10.0 | | **50.2** | 50.00 | 0 | 100.4 | 78 | 124 | 01/14/2016 |
| Methylene chloride | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 74.1 | 114 | 01/14/2016 |
| Naphthalene | 10.0 | | **48.6** | 50.00 | 0 | 97.1 | 77.9 | 122 | 01/14/2016 |
| n-Butyl acetate | 25.0 | | **44.0** | 50.00 | 0 | 88.0 | 74 | 120 | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 71.1 | 120 | 01/14/2016 |
| n-Heptane | 20.0 | | **51.6** | 50.00 | 0 | 103.2 | 67.4 | 129 | 01/14/2016 |
| n-Hexane | 20.0 | | **50.9** | 50.00 | 0 | 101.8 | 68.4 | 126 | 01/14/2016 |
| Nitrobenzene | 50.0 | | **336** | 500.0 | 0 | 67.2 | 37.9 | 181 | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 74.6 | 118 | 01/14/2016 |
| o-Xylene | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 80.1 | 111 | 01/14/2016 |
| Pentachloroethane | 20.0 | | **51.3** | 50.00 | 0 | 102.7 | 78.8 | 117 | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 77.6 | 118 | 01/14/2016 |
| Propionitrile | 50.0 | | **444** | 500.0 | 0 | 88.7 | 72.9 | 137 | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 74.5 | 119 | 01/14/2016 |
| Styrene | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 83.4 | 113 | 01/14/2016 |
| tert-Amyl methyl ether | 2.0 | | **49.7** | 50.00 | 0 | 99.4 | 78.7 | 117 | 01/14/2016 |
| tert-Butyl alcohol | 25.0 | | **182** | 250.0 | 0 | 72.7 | 58.1 | 139 | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **47.2** | 50.00 | 0 | 94.4 | 75.9 | 114 | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **45.8** | 50.00 | 0 | 91.7 | 72.5 | 125 | 01/14/2016 |
| Tetrahydrofuran | 20.0 | | **45.8** | 50.00 | 0 | 91.7 | 69.6 | 125 | 01/14/2016 |
| Toluene | 5.0 | | **47.1** | 50.00 | 0 | 94.1 | 77.5 | 113 | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 79 | 114 | 01/14/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **48.9** | 50.00 | 0 | 97.9 | 78 | 115 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115642 **SampType:** LCS Units **µg/L**

SampID: LCS-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **48.1** | 50.00 | 0 | 96.2 | 63.3 | 128 | 01/14/2016 |
| Trichloroethene | 5.0 | | **48.6** | 50.00 | 0 | 97.3 | 84.4 | 114 | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 75.2 | 132 | 01/14/2016 |
| Vinyl acetate | 10.0 | | **51.3** | 50.00 | 0 | 102.6 | 64.5 | 127 | 01/14/2016 |
| Vinyl chloride | 2.0 | | **47.8** | 50.00 | 0 | 95.6 | 58 | 134 | 01/14/2016 |
| Xylenes, Total | 5.0 | | **148** | 150.0 | 0 | 98.9 | 80.1 | 111 | 01/14/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **96.5** | 100.0 | 0 | 96.5 | 78.2 | 116 | 01/14/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **103** | 100.0 | 0 | 102.7 | 78 | 119 | 01/14/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **95.4** | 100.0 | 0 | 95.4 | 60.7 | 137 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.2** | 50.00 | | 98.5 | 74.7 | 129 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **48.8** | 50.00 | | 97.6 | 86 | 119 | 01/14/2016 |
| Surr: Toluene-d8 | | | **46.7** | 50.00 | | 93.3 | 84.1 | 114 | 01/14/2016 |

**Batch** 115642 **SampType:** LCSGD Units **µg/L** RPD Limit **20**

SampID: LCSGD-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2010** | 2000 | 0 | 100.6 | 2101 | 4.34 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.0** | 50.00 | | 96.0 | | | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.1** | 50.00 | | 98.1 | | | 01/14/2016 |
| Surr: Toluene-d8 | | | **48.6** | 50.00 | | 97.3 | | | 01/14/2016 |

**Batch** 115642 **SampType:** LCSG Units **µg/L**

SampID: LCSG-N160114-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2100** | 2000 | 0 | 105.1 | 70 | 130 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.1** | 50.00 | | 96.2 | 74.7 | 129 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.4** | 50.00 | | 98.8 | 86 | 119 | 01/14/2016 |
| Surr: Toluene-d8 | | | **49.3** | 50.00 | | 98.7 | 84.3 | 114 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115623** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Acetone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Acetonitrile | 100 | | **ND** | | | | | | 01/14/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/14/2016 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Benzene | 1.0 | | **ND** | | | | | | 01/14/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Chloroform | 5.0 | | **ND** | | | | | | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115623** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/14/2016 |
| Cyclohexanone | 100 | | **ND** | | | | | | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Iodomethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/14/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Methylene chloride | 5.0 | J | **1.4** | | | | | | 01/14/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/14/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/14/2016 |
| Nitrobenzene | 100 | | **ND** | | | | | | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 01/14/2016 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/14/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115623** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/14/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.4** | 50.00 | | 94.8 | 72.2 | 131 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.8** | 50.00 | | 101.6 | 82.1 | 116 | 01/14/2016 |
| Surr: Toluene-d8 | | | **50.0** | 50.00 | | 100.0 | 86 | 116 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115623** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 47.53 | 5.01 | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **54.8** | 50.00 | 0 | 109.5 | 51.93 | 5.29 | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **47.0** | 50.00 | 0 | 94.0 | 44.53 | 5.38 | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **56.1** | 50.00 | 0 | 112.3 | 53.34 | 5.12 | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 47.85 | 7.19 | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **132** | 125.0 | 0 | 106.0 | 115.5 | 13.74 | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **54.4** | 50.00 | 0 | 108.9 | 51.37 | 5.80 | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 51.10 | 5.28 | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 53.13 | 4.90 | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 48.87 | 10.49 | 01/14/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **46.3** | 50.00 | 0 | 92.6 | 43.57 | 6.12 | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.5 | 47.57 | 4.46 | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **56.0** | 50.00 | 0 | 112.0 | 50.18 | 10.94 | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 49.91 | 3.64 | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 44.66 | 13.41 | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 46.53 | 5.23 | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 48.19 | 3.51 | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **53.7** | 50.00 | 0 | 107.3 | 49.96 | 7.16 | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **54.5** | 50.00 | 0 | 108.9 | 51.43 | 5.72 | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 49.71 | 2.91 | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **51.9** | 50.00 | 0 | 103.9 | 50.41 | 2.97 | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 47.12 | 9.44 | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 50.57 | 1.86 | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 50.45 | 6.07 | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **55.2** | 50.00 | 0 | 110.5 | 52.80 | 4.52 | 01/14/2016 |
| 2-Butanone | 50.0 | | **144** | 125.0 | 0 | 114.8 | 130.8 | 9.32 | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **50.1** | 50.00 | 0 | 100.1 | 48.77 | 2.61 | 01/14/2016 |
| 2-Hexanone | 50.0 | | **131** | 125.0 | 0 | 105.1 | 122.5 | 7.00 | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **527** | 500.0 | 0 | 105.3 | 487.6 | 7.71 | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 49.72 | 1.58 | 01/14/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **123** | 125.0 | 0 | 98.6 | 115.6 | 6.43 | 01/14/2016 |
| Acetone | 50.0 | | **154** | 125.0 | 0 | 122.9 | 141.4 | 8.27 | 01/14/2016 |
| Acetonitrile | 100 | | **575** | 500.0 | 0 | 115.0 | 551.6 | 4.17 | 01/14/2016 |
| Acrolein | 100 | | **580** | 500.0 | 0 | 116.0 | 536.6 | 7.81 | 01/14/2016 |
| Acrylonitrile | 10.0 | | **55.4** | 50.00 | 0 | 110.8 | 49.75 | 10.71 | 01/14/2016 |
| Allyl chloride | 5.0 | | **55.7** | 50.00 | 0 | 111.4 | 50.45 | 9.87 | 01/14/2016 |
| Benzene | 1.0 | | **54.9** | 50.00 | 0 | 109.8 | 52.01 | 5.42 | 01/14/2016 |
| Bromobenzene | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 47.31 | 0.99 | 01/14/2016 |
| Bromochloromethane | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 49.19 | 7.38 | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **55.1** | 50.00 | 0 | 110.2 | 51.15 | 7.45 | 01/14/2016 |
| Bromoform | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 48.25 | 8.25 | 01/14/2016 |
| Bromomethane | 10.0 | | **59.4** | 50.00 | 0 | 118.8 | 41.78 | 34.86 | 01/14/2016 |
| Carbon disulfide | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 51.31 | 6.80 | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 51.36 | 4.31 | 01/14/2016 |
| Chlorobenzene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 49.10 | 5.93 | 01/14/2016 |
| Chloroethane | 10.0 | | **55.2** | 50.00 | 0 | 110.4 | 50.10 | 9.69 | 01/14/2016 |
| Chloroform | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 51.10 | 5.96 | 01/14/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115623** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **53.2** | 50.00 | 0 | 106.3 | 46.24 | 13.94 | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 49.88 | 6.54 | 01/14/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **56.6** | 50.00 | 0 | 113.3 | 53.24 | 6.19 | 01/14/2016 |
| Cyclohexanone | 100 | | **529** | 500.0 | 0 | 105.8 | 484.9 | 8.70 | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 48.05 | 6.74 | 01/14/2016 |
| Dibromomethane | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 49.94 | 6.68 | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **68.8** | 50.00 | 0 | 137.7 | 63.09 | 8.73 | 01/14/2016 |
| Diisopropyl ether | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 50.62 | 6.22 | 01/14/2016 |
| Ethyl ether | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 47.84 | 4.38 | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 48.41 | 6.19 | 01/14/2016 |
| Ethylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 49.12 | 4.85 | 01/14/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 49.73 | 7.29 | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **55.7** | 50.00 | 0 | 111.4 | 51.62 | 7.57 | 01/14/2016 |
| Hexachloroethane | 5.0 | | **52.5** | 50.00 | 0 | 105.1 | 50.75 | 3.47 | 01/14/2016 |
| Iodomethane | 10.0 | R | **52.3** | 50.00 | 0 | 104.7 | 34.74 | 40.40 | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 50.12 | 7.64 | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **104** | 100.0 | 0 | 104.3 | 100.1 | 4.05 | 01/14/2016 |
| Methacrylonitrile | 50.0 | | **53.3** | 50.00 | 0 | 106.7 | 49.02 | 8.42 | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 48.08 | 11.34 | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **54.8** | 50.00 | 0 | 109.5 | 50.93 | 7.23 | 01/14/2016 |
| Methylacrylate | 10.0 | | **53.2** | 50.00 | 0 | 106.4 | 50.51 | 5.21 | 01/14/2016 |
| Methylene chloride | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 49.61 | 8.31 | 01/14/2016 |
| Naphthalene | 10.0 | | **52.0** | 50.00 | 0 | 104.0 | 45.39 | 13.57 | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **55.5** | 50.00 | 0 | 111.1 | 53.07 | 4.55 | 01/14/2016 |
| n-Heptane | 20.0 | | **57.4** | 50.00 | 0 | 114.8 | 54.10 | 5.94 | 01/14/2016 |
| n-Hexane | 20.0 | | **58.9** | 50.00 | 0 | 117.8 | 54.85 | 7.12 | 01/14/2016 |
| Nitrobenzene | 100 | | **475** | 500.0 | 0 | 94.9 | 436.4 | 8.41 | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 49.77 | 1.65 | 01/14/2016 |
| o-Xylene | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 49.62 | 6.19 | 01/14/2016 |
| Pentachloroethane | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 50.62 | 5.77 | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 50.53 | 2.39 | 01/14/2016 |
| Propionitrile | 50.0 | | **558** | 500.0 | 0 | 111.6 | 509.0 | 9.15 | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 50.02 | 3.23 | 01/14/2016 |
| Styrene | 5.0 | | **51.3** | 50.00 | 0 | 102.7 | 48.32 | 6.06 | 01/14/2016 |
| tert-Amyl methyl ether | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 50.07 | 6.62 | 01/14/2016 |
| tert-Butyl alcohol | 50.0 | | **262** | 250.0 | 0 | 104.8 | 237.5 | 9.84 | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **48.9** | 50.00 | 0 | 97.7 | 47.54 | 2.76 | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 46.77 | 11.41 | 01/14/2016 |
| Tetrahydrofuran | 50.0 | | **50.8** | 50.00 | 0 | 101.6 | 45.68 | 10.57 | 01/14/2016 |
| Toluene | 5.0 | | **52.8** | 50.00 | 0 | 105.7 | 50.20 | 5.11 | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **54.3** | 50.00 | 0 | 108.7 | 51.12 | 6.11 | 01/14/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **53.6** | 50.00 | 0 | 107.1 | 50.09 | 6.71 | 01/14/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **49.6** | 50.00 | 0 | 99.1 | 48.80 | 1.55 | 01/14/2016 |
| Trichloroethene | 5.0 | | **56.7** | 50.00 | 0 | 113.4 | 52.69 | 7.30 | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **56.6** | 50.00 | 0 | 113.1 | 53.16 | 6.22 | 01/14/2016 |
| Vinyl acetate | 50.0 | | **54.8** | 50.00 | 0 | 109.5 | 51.23 | 6.68 | 01/14/2016 |
| Vinyl chloride | 2.0 | | **61.0** | 50.00 | 0 | 122.0 | 56.21 | 8.19 | 01/14/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697
**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115623** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **157** | 150.0 | 0 | 104.7 | 149.8 | 4.76 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **51.4** | 50.00 | | 102.7 | | | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **47.4** | 50.00 | | 94.9 | | | 01/14/2016 |
| Surr: Toluene-d8 | | | **48.3** | 50.00 | | 96.6 | | | 01/14/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16010697

**Client Project:** NGA 2015-0461.21

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115623** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **47.5** | 50.00 | 0 | 95.1 | 83.1 | 114 | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **51.9** | 50.00 | 0 | 103.9 | 78.5 | 119 | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **44.5** | 50.00 | 0 | 89.1 | 67.4 | 120 | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **53.3** | 50.00 | 0 | 106.7 | 75.4 | 121 | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **47.8** | 50.00 | 0 | 95.7 | 81.1 | 111 | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **115** | 125.0 | 0 | 92.4 | 55.4 | 131 | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 80.1 | 116 | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 73.1 | 121 | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **53.1** | 50.00 | 0 | 106.3 | 82.2 | 114 | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **48.9** | 50.00 | 0 | 97.7 | 81.7 | 130 | 01/14/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **43.6** | 50.00 | 0 | 87.1 | 67.8 | 118 | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **47.6** | 50.00 | 0 | 95.1 | 82.1 | 127 | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 72.3 | 141 | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 79.7 | 123 | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **44.7** | 50.00 | 0 | 89.3 | 62.1 | 123 | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **46.5** | 50.00 | 0 | 93.1 | 82.4 | 112 | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 82.7 | 119 | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 72.8 | 120 | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 80 | 116 | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 81.5 | 125 | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 82 | 124 | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 79.8 | 113 | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 81.1 | 124 | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **50.4** | 50.00 | 0 | 100.9 | 77.2 | 113 | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 76.6 | 121 | 01/14/2016 |
| 2-Butanone | 50.0 | | **131** | 125.0 | 0 | 104.6 | 62.8 | 131 | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 78.8 | 121 | 01/14/2016 |
| 2-Hexanone | 50.0 | | **123** | 125.0 | 0 | 98.0 | 63.1 | 125 | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **488** | 500.0 | 0 | 97.5 | 61.2 | 129 | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 77.6 | 124 | 01/14/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **116** | 125.0 | 0 | 92.5 | 60.6 | 126 | 01/14/2016 |
| Acetone | 50.0 | | **141** | 125.0 | 0 | 113.1 | 39.5 | 159 | 01/14/2016 |
| Acetonitrile | 100 | | **552** | 500.0 | 0 | 110.3 | 64.8 | 123 | 01/14/2016 |
| Acrolein | 100 | | **537** | 500.0 | 0 | 107.3 | 1 | 167 | 01/14/2016 |
| Acrylonitrile | 10.0 | | **49.8** | 50.00 | 0 | 99.5 | 67 | 124 | 01/14/2016 |
| Allyl chloride | 5.0 | | **50.4** | 50.00 | 0 | 100.9 | 58.5 | 129 | 01/14/2016 |
| Benzene | 1.0 | | **52.0** | 50.00 | 0 | 104.0 | 80.8 | 117 | 01/14/2016 |
| Bromobenzene | 5.0 | | **47.3** | 50.00 | 0 | 94.6 | 79.6 | 117 | 01/14/2016 |
| Bromochloromethane | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 70.7 | 121 | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 80.7 | 121 | 01/14/2016 |
| Bromoform | 5.0 | | **48.2** | 50.00 | 0 | 96.5 | 79.8 | 118 | 01/14/2016 |
| Bromomethane | 10.0 | | **41.8** | 50.00 | 0 | 83.6 | 1 | 175 | 01/14/2016 |
| Carbon disulfide | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 62.8 | 123 | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 77.6 | 123 | 01/14/2016 |
| Chlorobenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 85.6 | 116 | 01/14/2016 |
| Chloroethane | 10.0 | | **50.1** | 50.00 | 0 | 100.2 | 60.2 | 125 | 01/14/2016 |
| Chloroform | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 77.9 | 116 | 01/14/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16010697

**Client Project:** NGA 2015-0461.21

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115623** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **46.2** | 50.00 | 0 | 92.5 | 29.9 | 157 | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 80.1 | 116 | 01/14/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **53.2** | 50.00 | 0 | 106.5 | 80.5 | 121 | 01/14/2016 |
| Cyclohexanone | 100 | | **485** | 500.0 | 0 | 97.0 | 45.4 | 128 | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **48.0** | 50.00 | 0 | 96.1 | 84.3 | 116 | 01/14/2016 |
| Dibromomethane | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 76.6 | 115 | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **63.1** | 50.00 | 0 | 126.2 | 1 | 200 | 01/14/2016 |
| Diisopropyl ether | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 73.6 | 119 | 01/14/2016 |
| Ethyl ether | 5.0 | | **47.8** | 50.00 | 0 | 95.7 | 73.4 | 116 | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 76.2 | 120 | 01/14/2016 |
| Ethylbenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 84.8 | 116 | 01/14/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **49.7** | 50.00 | 0 | 99.5 | 73.8 | 119 | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 74 | 135 | 01/14/2016 |
| Hexachloroethane | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 76.4 | 121 | 01/14/2016 |
| Iodomethane | 10.0 | | **34.7** | 50.00 | 0 | 69.5 | 38.7 | 161 | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 85 | 125 | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **100** | 100.0 | 0 | 100.1 | 85.3 | 120 | 01/14/2016 |
| Methacrylonitrile | 50.0 | J | **49** | 50.00 | 0 | 98.0 | 65.7 | 120 | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 69.1 | 114 | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **50.9** | 50.00 | 0 | 101.9 | 66.6 | 125 | 01/14/2016 |
| Methylacrylate | 10.0 | | **50.5** | 50.00 | 0 | 101.0 | 69.7 | 121 | 01/14/2016 |
| Methylene chloride | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 73.4 | 115 | 01/14/2016 |
| Naphthalene | 10.0 | | **45.4** | 50.00 | 0 | 90.8 | 70.1 | 134 | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **53.1** | 50.00 | 0 | 106.1 | 78.4 | 138 | 01/14/2016 |
| n-Heptane | 20.0 | | **54.1** | 50.00 | 0 | 108.2 | 74.3 | 125 | 01/14/2016 |
| n-Hexane | 20.0 | | **54.8** | 50.00 | 0 | 109.7 | 66.3 | 129 | 01/14/2016 |
| Nitrobenzene | 100 | | **436** | 500.0 | 0 | 87.3 | 20.1 | 165 | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 79.1 | 125 | 01/14/2016 |
| o-Xylene | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 81.9 | 118 | 01/14/2016 |
| Pentachloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 72.7 | 123 | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **50.5** | 50.00 | 0 | 101.1 | 82.7 | 129 | 01/14/2016 |
| Propionitrile | 50.0 | | **509** | 500.0 | 0 | 101.8 | 64.3 | 121 | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 81.3 | 125 | 01/14/2016 |
| Styrene | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 88.2 | 122 | 01/14/2016 |
| tert-Amyl methyl ether | 5.0 | | **50.1** | 50.00 | 0 | 100.1 | 74.5 | 120 | 01/14/2016 |
| tert-Butyl alcohol | 50.0 | | **238** | 250.0 | 0 | 95.0 | 51.3 | 129 | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **47.5** | 50.00 | 0 | 95.1 | 74.8 | 125 | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **46.8** | 50.00 | 0 | 93.5 | 84.2 | 122 | 01/14/2016 |
| Tetrahydrofuran | 50.0 | J | **46** | 50.00 | 0 | 91.4 | 61 | 118 | 01/14/2016 |
| Toluene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 81.3 | 113 | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 78.2 | 118 | 01/14/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **50.1** | 50.00 | 0 | 100.2 | 81.7 | 124 | 01/14/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 63.9 | 117 | 01/14/2016 |
| Trichloroethene | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 81 | 123 | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **53.2** | 50.00 | 0 | 106.3 | 66.8 | 131 | 01/14/2016 |
| Vinyl acetate | 50.0 | | **51.2** | 50.00 | 0 | 102.5 | 64.3 | 122 | 01/14/2016 |
| Vinyl chloride | 2.0 | | **56.2** | 50.00 | 0 | 112.4 | 45.2 | 140 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115623 **SampType:** LCS Units **µg/Kg**

SampID: LCS-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **150** | 150.0 | 0 | 99.8 | 85.3 | 118 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **51.6** | 50.00 | | 103.3 | 72.2 | 131 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **48.7** | 50.00 | | 97.4 | 82.1 | 116 | 01/14/2016 |
| Surr: Toluene-d8 | | | **48.9** | 50.00 | | 97.9 | 86 | 116 | 01/14/2016 |

**Batch** 115623 **SampType:** LCSGD Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1830** | 2000 | 0 | 91.3 | 1873 | 2.49 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.8** | 50.00 | | 95.5 | | | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.2** | 50.00 | | 100.4 | | | 01/14/2016 |
| Surr: Toluene-d8 | | | **51.2** | 50.00 | | 102.5 | | | 01/14/2016 |

**Batch** 115623 **SampType:** LCSG Units **µg/Kg**

SampID: LCSG-F160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1870** | 2000 | 0 | 93.6 | 70 | 130 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.1** | 50.00 | | 96.2 | 72.2 | 131 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.4** | 50.00 | | 100.8 | 82.1 | 116 | 01/14/2016 |
| Surr: Toluene-d8 | | | **51.9** | 50.00 | | 103.8 | 86 | 116 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115652** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/15/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Acetone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Acetonitrile | 100 | | **ND** | | | | | | 01/15/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/15/2016 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Benzene | 1.0 | | **ND** | | | | | | 01/15/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Chloroform | 5.0 | | **ND** | | | | | | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115652** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/15/2016 |
| Cyclohexanone | 100 | | **ND** | | | | | | 01/15/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Iodomethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/15/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/15/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/15/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/15/2016 |
| Nitrobenzene | 100 | | **ND** | | | | | | 01/15/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/15/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 01/15/2016 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 01/15/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/15/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/15/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697
**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115652** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/15/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/15/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.1** | 50.00 | | 98.2 | 72.2 | 131 | 01/15/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.2** | 50.00 | | 98.4 | 82.1 | 116 | 01/15/2016 |
| Surr: Toluene-d8 | | | **48.9** | 50.00 | | 97.7 | 86 | 116 | 01/15/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16010697

**Client Project:** NGA 2015-0461.21

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115652** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 83.1 | 114 | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 78.5 | 119 | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 67.4 | 120 | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 75.4 | 121 | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 81.1 | 111 | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **110** | 125.0 | 0 | 87.8 | 55.4 | 131 | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **47.5** | 50.00 | 0 | 95.1 | 80.1 | 116 | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 73.1 | 121 | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 82.2 | 114 | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 81.7 | 130 | 01/14/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **51.5** | 50.00 | 0 | 103.1 | 67.8 | 118 | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 82.1 | 127 | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.3 | 72.3 | 141 | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 79.7 | 123 | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **46.0** | 50.00 | 0 | 92.1 | 62.1 | 123 | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 82.4 | 112 | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 82.7 | 119 | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 72.8 | 120 | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 80 | 116 | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 81.5 | 125 | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 82 | 124 | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 79.8 | 113 | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.7 | 81.1 | 124 | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 77.2 | 113 | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **50.5** | 50.00 | 0 | 100.9 | 76.6 | 121 | 01/14/2016 |
| 2-Butanone | 50.0 | | **112** | 125.0 | 0 | 89.4 | 62.8 | 131 | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **49.5** | 50.00 | 0 | 98.9 | 78.8 | 121 | 01/14/2016 |
| 2-Hexanone | 50.0 | | **107** | 125.0 | 0 | 85.3 | 63.1 | 125 | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **544** | 500.0 | 0 | 108.8 | 61.2 | 129 | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 77.6 | 124 | 01/14/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **126** | 125.0 | 0 | 101.1 | 60.6 | 126 | 01/14/2016 |
| Acetone | 50.0 | | **109** | 125.0 | 0 | 86.9 | 39.5 | 159 | 01/14/2016 |
| Acetonitrile | 100 | | **533** | 500.0 | 0 | 106.5 | 64.8 | 123 | 01/14/2016 |
| Acrolein | 100 | | **588** | 500.0 | 0 | 117.6 | 1 | 167 | 01/14/2016 |
| Acrylonitrile | 10.0 | | **51.5** | 50.00 | 0 | 103.1 | 67 | 124 | 01/14/2016 |
| Allyl chloride | 5.0 | | **44.9** | 50.00 | 0 | 89.8 | 58.5 | 129 | 01/14/2016 |
| Benzene | 1.0 | | **53.3** | 50.00 | 0 | 106.6 | 80.8 | 117 | 01/14/2016 |
| Bromobenzene | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 79.6 | 117 | 01/14/2016 |
| Bromochloromethane | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 70.7 | 121 | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 80.7 | 121 | 01/14/2016 |
| Bromoform | 5.0 | | **56.2** | 50.00 | 0 | 112.3 | 79.8 | 118 | 01/14/2016 |
| Bromomethane | 10.0 | | **50.2** | 50.00 | 0 | 100.3 | 1 | 175 | 01/14/2016 |
| Carbon disulfide | 5.0 | | **48.0** | 50.00 | 0 | 95.9 | 62.8 | 123 | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **54.8** | 50.00 | 0 | 109.5 | 77.6 | 123 | 01/14/2016 |
| Chlorobenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 85.6 | 116 | 01/14/2016 |
| Chloroethane | 10.0 | | **49.2** | 50.00 | 0 | 98.3 | 60.2 | 125 | 01/14/2016 |
| Chloroform | 5.0 | | **53.0** | 50.00 | 0 | 106.0 | 77.9 | 116 | 01/14/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16010697

**Client Project:** NGA 2015-0461.21

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115652** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **38.6** | 50.00 | 0 | 77.2 | 29.9 | 157 | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 80.1 | 116 | 01/14/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **51.9** | 50.00 | 0 | 103.8 | 80.5 | 121 | 01/14/2016 |
| Cyclohexanone | 100 | | **447** | 500.0 | 0 | 89.3 | 45.4 | 128 | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **52.3** | 50.00 | 0 | 104.5 | 84.3 | 116 | 01/14/2016 |
| Dibromomethane | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 76.6 | 115 | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **32.0** | 50.00 | 0 | 64.1 | 1 | 200 | 01/14/2016 |
| Diisopropyl ether | 5.0 | | **46.7** | 50.00 | 0 | 93.3 | 73.6 | 119 | 01/14/2016 |
| Ethyl ether | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 73.4 | 116 | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 76.2 | 120 | 01/14/2016 |
| Ethylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 84.8 | 116 | 01/14/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 73.8 | 119 | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 74 | 135 | 01/14/2016 |
| Hexachloroethane | 5.0 | | **49.7** | 50.00 | 0 | 99.5 | 76.4 | 121 | 01/14/2016 |
| Iodomethane | 10.0 | | **59.5** | 50.00 | 0 | 118.9 | 38.7 | 161 | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 85 | 125 | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **102** | 100.0 | 0 | 101.9 | 85.3 | 120 | 01/14/2016 |
| Methacrylonitrile | 50.0 | | **50.3** | 50.00 | 0 | 100.7 | 65.7 | 120 | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 69.1 | 114 | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **50.0** | 50.00 | 0 | 100.0 | 66.6 | 125 | 01/14/2016 |
| Methylacrylate | 10.0 | | **56.2** | 50.00 | 0 | 112.4 | 69.7 | 121 | 01/14/2016 |
| Methylene chloride | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 73.4 | 115 | 01/14/2016 |
| Naphthalene | 10.0 | | **49.6** | 50.00 | 0 | 99.3 | 70.1 | 134 | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 78.4 | 138 | 01/14/2016 |
| n-Heptane | 20.0 | | **47.4** | 50.00 | 0 | 94.8 | 74.3 | 125 | 01/14/2016 |
| n-Hexane | 20.0 | | **49.4** | 50.00 | 0 | 98.7 | 66.3 | 129 | 01/14/2016 |
| Nitrobenzene | 100 | | **466** | 500.0 | 0 | 93.2 | 20.1 | 165 | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 79.1 | 125 | 01/14/2016 |
| o-Xylene | 5.0 | | **51.1** | 50.00 | 0 | 102.1 | 81.9 | 118 | 01/14/2016 |
| Pentachloroethane | 5.0 | | **42.5** | 50.00 | 0 | 85.0 | 72.7 | 123 | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **48.1** | 50.00 | 0 | 96.1 | 82.7 | 129 | 01/14/2016 |
| Propionitrile | 50.0 | | **558** | 500.0 | 0 | 111.5 | 64.3 | 121 | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 81.3 | 125 | 01/14/2016 |
| Styrene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 88.2 | 122 | 01/14/2016 |
| tert-Amyl methyl ether | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 74.5 | 120 | 01/14/2016 |
| tert-Butyl alcohol | 50.0 | | **273** | 250.0 | 0 | 109.2 | 51.3 | 129 | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 74.8 | 125 | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **55.4** | 50.00 | 0 | 110.8 | 84.2 | 122 | 01/14/2016 |
| Tetrahydrofuran | 50.0 | J | **49** | 50.00 | 0 | 97.8 | 61 | 118 | 01/14/2016 |
| Toluene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 81.3 | 113 | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 78.2 | 118 | 01/14/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **49.7** | 50.00 | 0 | 99.4 | 81.7 | 124 | 01/14/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **46.4** | 50.00 | 0 | 92.7 | 63.9 | 117 | 01/14/2016 |
| Trichloroethene | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 81 | 123 | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 66.8 | 131 | 01/14/2016 |
| Vinyl acetate | 50.0 | J | **48** | 50.00 | 0 | 96.1 | 64.3 | 122 | 01/14/2016 |
| Vinyl chloride | 2.0 | | **44.3** | 50.00 | 0 | 88.6 | 45.2 | 140 | 01/14/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115652** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **153** | 150.0 | 0 | 102.0 | 85.3 | 118 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.4** | 50.00 | | 96.8 | 72.2 | 131 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.2** | 50.00 | | 100.3 | 82.1 | 116 | 01/14/2016 |
| Surr: Toluene-d8 | | | **47.1** | 50.00 | | 94.1 | 86 | 116 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115652** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 51.12 | 0.22 | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 53.75 | 0.50 | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 49.02 | 1.31 | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 52.13 | 3.15 | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 51.36 | 1.19 | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **110** | 125.0 | 0 | 88.1 | 109.7 | 0.38 | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 47.53 | 10.47 | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 50.01 | 0.99 | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **53.0** | 50.00 | 0 | 106.0 | 52.45 | 1.04 | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 50.55 | 0.62 | 01/14/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **51.2** | 50.00 | 0 | 102.5 | 51.53 | 0.56 | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **46.8** | 50.00 | 0 | 93.7 | 46.82 | 0.02 | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 49.14 | 0.04 | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 50.49 | 1.73 | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 46.05 | 2.28 | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.3** | 50.00 | 0 | 98.7 | 49.81 | 0.95 | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **49.2** | 50.00 | 0 | 98.3 | 49.39 | 0.45 | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 50.96 | 0.02 | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.9** | 50.00 | 0 | 103.7 | 51.62 | 0.48 | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 49.02 | 0.57 | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 49.02 | 0.75 | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **49.9** | 50.00 | 0 | 99.7 | 49.78 | 0.16 | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.1 | 48.85 | 0.45 | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 50.36 | 0.40 | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **50.8** | 50.00 | 0 | 101.6 | 50.46 | 0.63 | 01/14/2016 |
| 2-Butanone | 50.0 | | **113** | 125.0 | 0 | 90.2 | 111.7 | 0.96 | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 49.47 | 1.41 | 01/14/2016 |
| 2-Hexanone | 50.0 | | **106** | 125.0 | 0 | 84.9 | 106.6 | 0.50 | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **551** | 500.0 | 0 | 110.2 | 543.8 | 1.29 | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 48.68 | 1.08 | 01/14/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **126** | 125.0 | 0 | 100.6 | 126.4 | 0.46 | 01/14/2016 |
| Acetone | 50.0 | | **113** | 125.0 | 0 | 90.8 | 108.6 | 4.35 | 01/14/2016 |
| Acetonitrile | 100 | | **528** | 500.0 | 0 | 105.7 | 532.6 | 0.78 | 01/14/2016 |
| Acrolein | 100 | | **615** | 500.0 | 0 | 122.9 | 588.1 | 4.41 | 01/14/2016 |
| Acrylonitrile | 10.0 | | **51.4** | 50.00 | 0 | 102.9 | 51.54 | 0.21 | 01/14/2016 |
| Allyl chloride | 5.0 | | **45.9** | 50.00 | 0 | 91.8 | 44.92 | 2.14 | 01/14/2016 |
| Benzene | 1.0 | | **53.6** | 50.00 | 0 | 107.3 | 53.28 | 0.67 | 01/14/2016 |
| Bromobenzene | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 48.40 | 0.06 | 01/14/2016 |
| Bromochloromethane | 5.0 | | **48.5** | 50.00 | 0 | 97.1 | 48.41 | 0.25 | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 51.29 | 0.12 | 01/14/2016 |
| Bromoform | 5.0 | | **56.2** | 50.00 | 0 | 112.4 | 56.17 | 0.04 | 01/14/2016 |
| Bromomethane | 10.0 | | **49.1** | 50.00 | 0 | 98.2 | 50.15 | 2.16 | 01/14/2016 |
| Carbon disulfide | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 47.96 | 1.47 | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **55.2** | 50.00 | 0 | 110.4 | 54.76 | 0.76 | 01/14/2016 |
| Chlorobenzene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 51.84 | 0.48 | 01/14/2016 |
| Chloroethane | 10.0 | | **48.6** | 50.00 | 0 | 97.3 | 49.17 | 1.08 | 01/14/2016 |
| Chloroform | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 53.01 | 0.15 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115652** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **37.4** | 50.00 | 0 | 74.8 | 38.61 | 3.16 | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 49.32 | 0.24 | 01/14/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **51.9** | 50.00 | 0 | 103.8 | 51.89 | 0.06 | 01/14/2016 |
| Cyclohexanone | 100 | | **452** | 500.0 | 0 | 90.4 | 446.6 | 1.22 | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 52.27 | 0.94 | 01/14/2016 |
| Dibromomethane | 5.0 | | **53.2** | 50.00 | 0 | 106.3 | 52.70 | 0.89 | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **32.1** | 50.00 | 0 | 64.2 | 32.03 | 0.19 | 01/14/2016 |
| Diisopropyl ether | 5.0 | | **47.0** | 50.00 | 0 | 94.1 | 46.66 | 0.83 | 01/14/2016 |
| Ethyl ether | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 48.79 | 0.62 | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 51.43 | 1.06 | 01/14/2016 |
| Ethylbenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 48.72 | 0.21 | 01/14/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **48.6** | 50.00 | 0 | 97.2 | 48.39 | 0.43 | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **51.3** | 50.00 | 0 | 102.7 | 50.24 | 2.17 | 01/14/2016 |
| Hexachloroethane | 5.0 | | **49.9** | 50.00 | 0 | 99.7 | 49.73 | 0.26 | 01/14/2016 |
| Iodomethane | 10.0 | | **59.8** | 50.00 | 0 | 119.5 | 59.47 | 0.49 | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **49.3** | 50.00 | 0 | 98.5 | 49.90 | 1.27 | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **102** | 100.0 | 0 | 101.9 | 101.9 | 0.03 | 01/14/2016 |
| Methacrylonitrile | 50.0 | J | **50** | 50.00 | 0 | 99.6 | 50.33 | 0.00 | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 50.28 | 0.08 | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **50.1** | 50.00 | 0 | 100.2 | 49.98 | 0.20 | 01/14/2016 |
| Methylacrylate | 10.0 | | **56.0** | 50.00 | 0 | 111.9 | 56.18 | 0.37 | 01/14/2016 |
| Methylene chloride | 5.0 | | **49.5** | 50.00 | 0 | 98.9 | 49.70 | 0.48 | 01/14/2016 |
| Naphthalene | 10.0 | | **50.8** | 50.00 | 0 | 101.7 | 49.64 | 2.37 | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 47.90 | 2.88 | 01/14/2016 |
| n-Heptane | 20.0 | | **49.8** | 50.00 | 0 | 99.7 | 47.40 | 5.00 | 01/14/2016 |
| n-Hexane | 20.0 | | **51.0** | 50.00 | 0 | 102.0 | 49.37 | 3.25 | 01/14/2016 |
| Nitrobenzene | 100 | | **481** | 500.0 | 0 | 96.2 | 465.8 | 3.20 | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 49.40 | 2.58 | 01/14/2016 |
| o-Xylene | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 51.07 | 0.94 | 01/14/2016 |
| Pentachloroethane | 5.0 | S | **33.6** | 50.00 | 0 | 67.2 | 42.52 | 23.41 | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 48.07 | 2.28 | 01/14/2016 |
| Propionitrile | 50.0 | | **559** | 500.0 | 0 | 111.8 | 557.5 | 0.24 | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 48.49 | 1.45 | 01/14/2016 |
| Styrene | 5.0 | | **52.0** | 50.00 | 0 | 103.9 | 51.78 | 0.35 | 01/14/2016 |
| tert-Amyl methyl ether | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 50.48 | 0.40 | 01/14/2016 |
| tert-Butyl alcohol | 50.0 | | **276** | 250.0 | 0 | 110.2 | 273.1 | 0.89 | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 51.88 | 0.46 | 01/14/2016 |
| Tetrachloroethene | 5.0 | S | **61.7** | 50.00 | 0 | 123.3 | 55.40 | 10.70 | 01/14/2016 |
| Tetrahydrofuran | 50.0 | | **51.8** | 50.00 | 0 | 103.6 | 48.91 | 5.70 | 01/14/2016 |
| Toluene | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 50.21 | 0.10 | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 51.63 | 0.93 | 01/14/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **49.7** | 50.00 | 0 | 99.4 | 49.72 | 0.04 | 01/14/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **46.4** | 50.00 | 0 | 92.8 | 46.35 | 0.09 | 01/14/2016 |
| Trichloroethene | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 53.89 | 3.11 | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 50.73 | 0.43 | 01/14/2016 |
| Vinyl acetate | 50.0 | J | **44** | 50.00 | 0 | 87.9 | 48.07 | 0.00 | 01/14/2016 |
| Vinyl chloride | 2.0 | | **43.9** | 50.00 | 0 | 87.8 | 44.32 | 0.97 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115652** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **152** | 150.0 | 0 | 101.6 | 153.0 | 0.33 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.5** | 50.00 | | 97.0 | | | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.6** | 50.00 | | 99.1 | | | 01/14/2016 |
| Surr: Toluene-d8 | | | **47.3** | 50.00 | | 94.7 | | | 01/14/2016 |

**Batch 115652** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1990** | 2000 | 0 | 99.6 | 70 | 130 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.3** | 50.00 | | 98.7 | 72.2 | 131 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **48.9** | 50.00 | | 97.7 | 82.1 | 116 | 01/14/2016 |
| Surr: Toluene-d8 | | | **48.8** | 50.00 | | 97.5 | 86 | 116 | 01/14/2016 |

**Batch 115652** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A160114A-2

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2030** | 2000 | 0 | 101.6 | 1992 | 1.93 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.5** | 50.00 | | 97.1 | | | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.0** | 50.00 | | 98.0 | | | 01/14/2016 |
| Surr: Toluene-d8 | | | **48.3** | 50.00 | | 96.6 | | | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115663** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/15/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Acetone | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Acetonitrile | 100 | | **ND** | | | | | | 01/15/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/15/2016 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Benzene | 1.0 | | **ND** | | | | | | 01/15/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Chloroform | 5.0 | | **ND** | | | | | | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115663** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/15/2016 |
| Cyclohexanone | 100 | | **ND** | | | | | | 01/15/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Iodomethane | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/15/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/15/2016 |
| Methylene chloride | 5.0 | J | **1.1** | | | | | | 01/15/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/15/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/15/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/15/2016 |
| Nitrobenzene | 100 | | **ND** | | | | | | 01/15/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/15/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 01/15/2016 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 01/15/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/15/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/15/2016 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 01/15/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115663** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/15/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/15/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.7** | 50.00 | | 97.4 | 72.2 | 131 | 01/15/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.1** | 50.00 | | 98.3 | 82.1 | 116 | 01/15/2016 |
| Surr: Toluene-d8 | | | **47.5** | 50.00 | | 95.1 | 86 | 116 | 01/15/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16010697

**Client Project:** NGA 2015-0461.21

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115663** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 83.1 | 114 | 01/15/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **55.1** | 50.00 | 0 | 110.2 | 78.5 | 119 | 01/15/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.9** | 50.00 | 0 | 97.9 | 67.4 | 120 | 01/15/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **57.3** | 50.00 | 0 | 114.6 | 75.4 | 121 | 01/15/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 81.1 | 111 | 01/15/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **110** | 125.0 | 0 | 88.2 | 55.4 | 131 | 01/15/2016 |
| 1,1-Dichloroethane | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 80.1 | 116 | 01/15/2016 |
| 1,1-Dichloroethene | 5.0 | | **54.7** | 50.00 | 0 | 109.5 | 73.1 | 121 | 01/15/2016 |
| 1,1-Dichloropropene | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 82.2 | 114 | 01/15/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **56.2** | 50.00 | 0 | 112.5 | 81.7 | 130 | 01/15/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **50.6** | 50.00 | 0 | 101.1 | 67.8 | 118 | 01/15/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 82.1 | 127 | 01/15/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **58.8** | 50.00 | 0 | 117.6 | 72.3 | 141 | 01/15/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 79.7 | 123 | 01/15/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **46.9** | 50.00 | 0 | 93.7 | 62.1 | 123 | 01/15/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 82.4 | 112 | 01/15/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 82.7 | 119 | 01/15/2016 |
| 1,2-Dichloroethane | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 72.8 | 120 | 01/15/2016 |
| 1,2-Dichloropropane | 5.0 | | **52.3** | 50.00 | 0 | 104.5 | 80 | 116 | 01/15/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 81.5 | 125 | 01/15/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 82 | 124 | 01/15/2016 |
| 1,3-Dichloropropane | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 79.8 | 113 | 01/15/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 81.1 | 124 | 01/15/2016 |
| 1-Chlorobutane | 5.0 | | **52.7** | 50.00 | 0 | 105.3 | 77.2 | 113 | 01/15/2016 |
| 2,2-Dichloropropane | 5.0 | | **54.9** | 50.00 | 0 | 109.7 | 76.6 | 121 | 01/15/2016 |
| 2-Butanone | 50.0 | | **114** | 125.0 | 0 | 91.3 | 62.8 | 131 | 01/15/2016 |
| 2-Chlorotoluene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 78.8 | 121 | 01/15/2016 |
| 2-Hexanone | 50.0 | | **105** | 125.0 | 0 | 83.9 | 63.1 | 125 | 01/15/2016 |
| 2-Nitropropane | 50.0 | | **544** | 500.0 | 0 | 108.9 | 61.2 | 129 | 01/15/2016 |
| 4-Chlorotoluene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 77.6 | 124 | 01/15/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **121** | 125.0 | 0 | 96.9 | 60.6 | 126 | 01/15/2016 |
| Acetone | 50.0 | | **124** | 125.0 | 0 | 99.2 | 39.5 | 159 | 01/15/2016 |
| Acetonitrile | 100 | | **560** | 500.0 | 0 | 112.0 | 64.8 | 123 | 01/15/2016 |
| Acrolein | 100 | | **551** | 500.0 | 0 | 110.3 | 1 | 167 | 01/15/2016 |
| Acrylonitrile | 10.0 | | **53.1** | 50.00 | 0 | 106.2 | 67 | 124 | 01/15/2016 |
| Allyl chloride | 5.0 | | **49.3** | 50.00 | 0 | 98.7 | 58.5 | 129 | 01/15/2016 |
| Benzene | 1.0 | | **54.6** | 50.00 | 0 | 109.2 | 80.8 | 117 | 01/15/2016 |
| Bromobenzene | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 79.6 | 117 | 01/15/2016 |
| Bromochloromethane | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 70.7 | 121 | 01/15/2016 |
| Bromodichloromethane | 5.0 | | **52.3** | 50.00 | 0 | 104.5 | 80.7 | 121 | 01/15/2016 |
| Bromoform | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 79.8 | 118 | 01/15/2016 |
| Bromomethane | 10.0 | | **53.5** | 50.00 | 0 | 107.1 | 1 | 175 | 01/15/2016 |
| Carbon disulfide | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 62.8 | 123 | 01/15/2016 |
| Carbon tetrachloride | 5.0 | | **57.0** | 50.00 | 0 | 113.9 | 77.6 | 123 | 01/15/2016 |
| Chlorobenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.1 | 85.6 | 116 | 01/15/2016 |
| Chloroethane | 10.0 | | **51.9** | 50.00 | 0 | 103.7 | 60.2 | 125 | 01/15/2016 |
| Chloroform | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 77.9 | 116 | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115663** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **41.0** | 50.00 | 0 | 81.9 | 29.9 | 157 | 01/15/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 80.1 | 116 | 01/15/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **53.6** | 50.00 | 0 | 107.3 | 80.5 | 121 | 01/15/2016 |
| Cyclohexanone | 100 | | **465** | 500.0 | 0 | 92.9 | 45.4 | 128 | 01/15/2016 |
| Dibromochloromethane | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 84.3 | 116 | 01/15/2016 |
| Dibromomethane | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 76.6 | 115 | 01/15/2016 |
| Dichlorodifluoromethane | 10.0 | | **35.5** | 50.00 | 0 | 71.1 | 1 | 200 | 01/15/2016 |
| Diisopropyl ether | 5.0 | | **47.3** | 50.00 | 0 | 94.7 | 73.6 | 119 | 01/15/2016 |
| Ethyl ether | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 73.4 | 116 | 01/15/2016 |
| Ethyl methacrylate | 5.0 | | **49.7** | 50.00 | 0 | 99.5 | 76.2 | 120 | 01/15/2016 |
| Ethylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.6 | 84.8 | 116 | 01/15/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 73.8 | 119 | 01/15/2016 |
| Hexachlorobutadiene | 5.0 | | **58.5** | 50.00 | 0 | 117.0 | 74 | 135 | 01/15/2016 |
| Hexachloroethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 76.4 | 121 | 01/15/2016 |
| Iodomethane | 10.0 | | **62.0** | 50.00 | 0 | 124.0 | 38.7 | 161 | 01/15/2016 |
| Isopropylbenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 85 | 125 | 01/15/2016 |
| m,p-Xylenes | 5.0 | | **109** | 100.0 | 0 | 108.9 | 85.3 | 120 | 01/15/2016 |
| Methacrylonitrile | 50.0 | | **50.5** | 50.00 | 0 | 101.1 | 65.7 | 120 | 01/15/2016 |
| Methyl Methacrylate | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 69.1 | 114 | 01/15/2016 |
| Methyl tert-butyl ether | 2.0 | | **49.4** | 50.00 | 0 | 98.7 | 66.6 | 125 | 01/15/2016 |
| Methylacrylate | 10.0 | | **55.4** | 50.00 | 0 | 110.9 | 69.7 | 121 | 01/15/2016 |
| Methylene chloride | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 73.4 | 115 | 01/15/2016 |
| Naphthalene | 10.0 | | **51.6** | 50.00 | 0 | 103.1 | 70.1 | 134 | 01/15/2016 |
| n-Butylbenzene | 5.0 | | **55.1** | 50.00 | 0 | 110.3 | 78.4 | 138 | 01/15/2016 |
| n-Heptane | 20.0 | | **55.4** | 50.00 | 0 | 110.8 | 74.3 | 125 | 01/15/2016 |
| n-Hexane | 20.0 | | **56.0** | 50.00 | 0 | 112.0 | 66.3 | 129 | 01/15/2016 |
| Nitrobenzene | 100 | | **425** | 500.0 | 0 | 84.9 | 20.1 | 165 | 01/15/2016 |
| n-Propylbenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.7 | 79.1 | 125 | 01/15/2016 |
| o-Xylene | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 81.9 | 118 | 01/15/2016 |
| Pentachloroethane | 5.0 | | **55.0** | 50.00 | 0 | 110.1 | 72.7 | 123 | 01/15/2016 |
| p-Isopropyltoluene | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 82.7 | 129 | 01/15/2016 |
| Propionitrile | 50.0 | | **567** | 500.0 | 0 | 113.5 | 64.3 | 121 | 01/15/2016 |
| sec-Butylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 81.3 | 125 | 01/15/2016 |
| Styrene | 5.0 | | **54.6** | 50.00 | 0 | 109.1 | 88.2 | 122 | 01/15/2016 |
| tert-Amyl methyl ether | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 74.5 | 120 | 01/15/2016 |
| tert-Butyl alcohol | 50.0 | | **275** | 250.0 | 0 | 109.8 | 51.3 | 129 | 01/15/2016 |
| tert-Butylbenzene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 74.8 | 125 | 01/15/2016 |
| Tetrachloroethene | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 84.2 | 122 | 01/15/2016 |
| Tetrahydrofuran | 50.0 | J | **48** | 50.00 | 0 | 96.3 | 61 | 118 | 01/15/2016 |
| Toluene | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 81.3 | 113 | 01/15/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 78.2 | 118 | 01/15/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **50.2** | 50.00 | 0 | 100.5 | 81.7 | 124 | 01/15/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **46.9** | 50.00 | 0 | 93.7 | 63.9 | 117 | 01/15/2016 |
| Trichloroethene | 5.0 | | **56.3** | 50.00 | 0 | 112.7 | 81 | 123 | 01/15/2016 |
| Trichlorofluoromethane | 5.0 | | **56.4** | 50.00 | 0 | 112.8 | 66.8 | 131 | 01/15/2016 |
| Vinyl acetate | 50.0 | | **53.4** | 50.00 | 0 | 106.7 | 64.3 | 122 | 01/15/2016 |
| Vinyl chloride | 2.0 | | **46.3** | 50.00 | 0 | 92.6 | 45.2 | 140 | 01/15/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115663** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **162** | 150.0 | 0 | 108.0 | 85.3 | 118 | 01/15/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.9** | 50.00 | | 97.9 | 72.2 | 131 | 01/15/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.0** | 50.00 | | 98.0 | 82.1 | 116 | 01/15/2016 |
| Surr: Toluene-d8 | | | **46.6** | 50.00 | | 93.2 | 86 | 116 | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115663** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 50.56 | 0.04 | 01/15/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **55.5** | 50.00 | 0 | 111.1 | 55.12 | 0.74 | 01/15/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **47.2** | 50.00 | 0 | 94.4 | 48.93 | 3.60 | 01/15/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **57.4** | 50.00 | 0 | 114.9 | 57.31 | 0.23 | 01/15/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 50.20 | 0.18 | 01/15/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **112** | 125.0 | 0 | 89.9 | 110.3 | 1.83 | 01/15/2016 |
| 1,1-Dichloroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 55.52 | 8.04 | 01/15/2016 |
| 1,1-Dichloroethene | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 54.73 | 1.07 | 01/15/2016 |
| 1,1-Dichloropropene | 5.0 | | **55.9** | 50.00 | 0 | 111.7 | 55.58 | 0.50 | 01/15/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **57.1** | 50.00 | 0 | 114.2 | 56.23 | 1.54 | 01/15/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **48.7** | 50.00 | 0 | 97.4 | 50.57 | 3.73 | 01/15/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 49.01 | 0.66 | 01/15/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **58.5** | 50.00 | 0 | 117.0 | 58.81 | 0.55 | 01/15/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 54.15 | 0.18 | 01/15/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **45.1** | 50.00 | 0 | 90.1 | 46.86 | 3.92 | 01/15/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.2** | 50.00 | 0 | 98.5 | 49.84 | 1.21 | 01/15/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 52.16 | 0.65 | 01/15/2016 |
| 1,2-Dichloroethane | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 52.03 | 0.19 | 01/15/2016 |
| 1,2-Dichloropropane | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 52.26 | 0.25 | 01/15/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 51.58 | 0.43 | 01/15/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 53.38 | 0.00 | 01/15/2016 |
| 1,3-Dichloropropane | 5.0 | | **49.2** | 50.00 | 0 | 98.3 | 48.90 | 0.53 | 01/15/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **53.0** | 50.00 | 0 | 106.0 | 53.77 | 1.40 | 01/15/2016 |
| 1-Chlorobutane | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 52.66 | 0.55 | 01/15/2016 |
| 2,2-Dichloropropane | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 54.86 | 0.46 | 01/15/2016 |
| 2-Butanone | 50.0 | | **111** | 125.0 | 0 | 88.8 | 114.2 | 2.81 | 01/15/2016 |
| 2-Chlorotoluene | 5.0 | | **52.0** | 50.00 | 0 | 103.9 | 52.18 | 0.42 | 01/15/2016 |
| 2-Hexanone | 50.0 | | **100** | 125.0 | 0 | 80.0 | 104.9 | 4.81 | 01/15/2016 |
| 2-Nitropropane | 50.0 | | **538** | 500.0 | 0 | 107.6 | 544.4 | 1.17 | 01/15/2016 |
| 4-Chlorotoluene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 52.47 | 1.27 | 01/15/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **118** | 125.0 | 0 | 94.2 | 121.2 | 2.89 | 01/15/2016 |
| Acetone | 50.0 | | **124** | 125.0 | 0 | 99.5 | 124.0 | 0.29 | 01/15/2016 |
| Acetonitrile | 100 | | **540** | 500.0 | 0 | 108.0 | 560.1 | 3.69 | 01/15/2016 |
| Acrolein | 100 | | **553** | 500.0 | 0 | 110.6 | 551.4 | 0.29 | 01/15/2016 |
| Acrylonitrile | 10.0 | | **51.8** | 50.00 | 0 | 103.7 | 53.08 | 2.38 | 01/15/2016 |
| Allyl chloride | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 49.33 | 0.51 | 01/15/2016 |
| Benzene | 1.0 | | **54.9** | 50.00 | 0 | 109.8 | 54.62 | 0.51 | 01/15/2016 |
| Bromobenzene | 5.0 | | **47.6** | 50.00 | 0 | 95.2 | 48.42 | 1.69 | 01/15/2016 |
| Bromochloromethane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 51.38 | 0.29 | 01/15/2016 |
| Bromodichloromethane | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 52.26 | 0.80 | 01/15/2016 |
| Bromoform | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 55.58 | 2.31 | 01/15/2016 |
| Bromomethane | 10.0 | | **53.0** | 50.00 | 0 | 105.9 | 53.53 | 1.09 | 01/15/2016 |
| Carbon disulfide | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 52.20 | 0.54 | 01/15/2016 |
| Carbon tetrachloride | 5.0 | | **57.6** | 50.00 | 0 | 115.1 | 56.97 | 1.05 | 01/15/2016 |
| Chlorobenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.3 | 53.57 | 0.17 | 01/15/2016 |
| Chloroethane | 10.0 | | **51.9** | 50.00 | 0 | 103.8 | 51.87 | 0.02 | 01/15/2016 |
| Chloroform | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 54.51 | 0.69 | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115663** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **40.9** | 50.00 | 0 | 81.8 | 40.96 | 0.12 | 01/15/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 51.88 | 1.78 | 01/15/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **53.6** | 50.00 | 0 | 107.1 | 53.63 | 0.11 | 01/15/2016 |
| Cyclohexanone | 100 | | **455** | 500.0 | 0 | 90.9 | 464.7 | 2.22 | 01/15/2016 |
| Dibromochloromethane | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 51.50 | 0.41 | 01/15/2016 |
| Dibromomethane | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 53.64 | 0.47 | 01/15/2016 |
| Dichlorodifluoromethane | 10.0 | | **34.5** | 50.00 | 0 | 69.0 | 35.53 | 2.94 | 01/15/2016 |
| Diisopropyl ether | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 47.34 | 1.38 | 01/15/2016 |
| Ethyl ether | 5.0 | | **48.5** | 50.00 | 0 | 97.1 | 48.78 | 0.51 | 01/15/2016 |
| Ethyl methacrylate | 5.0 | | **48.6** | 50.00 | 0 | 97.2 | 49.74 | 2.34 | 01/15/2016 |
| Ethylbenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.7 | 50.82 | 0.10 | 01/15/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 48.10 | 1.22 | 01/15/2016 |
| Hexachlorobutadiene | 5.0 | | **58.5** | 50.00 | 0 | 117.0 | 58.49 | 0.03 | 01/15/2016 |
| Hexachloroethane | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 51.09 | 2.52 | 01/15/2016 |
| Iodomethane | 10.0 | | **62.7** | 50.00 | 0 | 125.4 | 61.99 | 1.12 | 01/15/2016 |
| Isopropylbenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 53.29 | 1.72 | 01/15/2016 |
| m,p-Xylenes | 5.0 | | **109** | 100.0 | 0 | 108.6 | 108.9 | 0.26 | 01/15/2016 |
| Methacrylonitrile | 50.0 | J | **50** | 50.00 | 0 | 98.9 | 50.53 | 0.00 | 01/15/2016 |
| Methyl Methacrylate | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 50.31 | 1.46 | 01/15/2016 |
| Methyl tert-butyl ether | 2.0 | | **49.4** | 50.00 | 0 | 98.7 | 49.37 | 0.02 | 01/15/2016 |
| Methylacrylate | 10.0 | | **54.1** | 50.00 | 0 | 108.1 | 55.44 | 2.50 | 01/15/2016 |
| Methylene chloride | 5.0 | | **52.2** | 50.00 | 0 | 104.5 | 52.60 | 0.69 | 01/15/2016 |
| Naphthalene | 10.0 | | **52.3** | 50.00 | 0 | 104.6 | 51.55 | 1.41 | 01/15/2016 |
| n-Butylbenzene | 5.0 | | **54.5** | 50.00 | 0 | 109.1 | 55.13 | 1.08 | 01/15/2016 |
| n-Heptane | 20.0 | | **53.4** | 50.00 | 0 | 106.8 | 55.41 | 3.68 | 01/15/2016 |
| n-Hexane | 20.0 | | **55.3** | 50.00 | 0 | 110.6 | 55.98 | 1.24 | 01/15/2016 |
| Nitrobenzene | 100 | | **431** | 500.0 | 0 | 86.2 | 424.5 | 1.50 | 01/15/2016 |
| n-Propylbenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.7 | 53.35 | 0.04 | 01/15/2016 |
| o-Xylene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 53.09 | 1.24 | 01/15/2016 |
| Pentachloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 55.05 | 9.00 | 01/15/2016 |
| p-Isopropyltoluene | 5.0 | | **52.4** | 50.00 | 0 | 104.7 | 52.64 | 0.53 | 01/15/2016 |
| Propionitrile | 50.0 | | **559** | 500.0 | 0 | 111.7 | 567.4 | 1.55 | 01/15/2016 |
| sec-Butylbenzene | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 51.44 | 1.04 | 01/15/2016 |
| Styrene | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 54.57 | 0.74 | 01/15/2016 |
| tert-Amyl methyl ether | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 49.83 | 0.18 | 01/15/2016 |
| tert-Butyl alcohol | 50.0 | | **260** | 250.0 | 0 | 104.2 | 274.6 | 5.31 | 01/15/2016 |
| tert-Butylbenzene | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 51.91 | 1.30 | 01/15/2016 |
| Tetrachloroethene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 50.56 | 4.49 | 01/15/2016 |
| Tetrahydrofuran | 50.0 | J | **50** | 50.00 | 0 | 99.1 | 48.17 | 0.00 | 01/15/2016 |
| Toluene | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 51.15 | 0.70 | 01/15/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 54.60 | 0.04 | 01/15/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **49.7** | 50.00 | 0 | 99.5 | 50.25 | 1.04 | 01/15/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **45.6** | 50.00 | 0 | 91.2 | 46.87 | 2.72 | 01/15/2016 |
| Trichloroethene | 5.0 | | **57.6** | 50.00 | 0 | 115.1 | 56.34 | 2.16 | 01/15/2016 |
| Trichlorofluoromethane | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 56.41 | 5.80 | 01/15/2016 |
| Vinyl acetate | 50.0 | | **53.1** | 50.00 | 0 | 106.3 | 53.36 | 0.43 | 01/15/2016 |
| Vinyl chloride | 2.0 | | **45.8** | 50.00 | 0 | 91.7 | 46.31 | 1.04 | 01/15/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010697

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115663** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **162** | 150.0 | 0 | 108.3 | 162.0 | 0.23 | 01/15/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.0** | 50.00 | | 98.0 | | | 01/15/2016 |
| Surr: 4-Bromofluorobenzene | | | **48.8** | 50.00 | | 97.6 | | | 01/15/2016 |
| Surr: Toluene-d8 | | | **46.8** | 50.00 | | 93.5 | | | 01/15/2016 |

**Batch 115663** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1980** | 2000 | 0 | 99.1 | 70 | 130 | 01/15/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.5** | 50.00 | | 96.9 | 72.2 | 131 | 01/15/2016 |
| Surr: 4-Bromofluorobenzene | | | **48.1** | 50.00 | | 96.3 | 82.1 | 116 | 01/15/2016 |
| Surr: Toluene-d8 | | | **48.4** | 50.00 | | 96.8 | 86 | 116 | 01/15/2016 |

**Batch 115663** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A160115A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2060** | 2000 | 0 | 103.0 | 1982 | 3.86 | 01/15/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.5** | 50.00 | | 97.1 | | | 01/15/2016 |
| Surr: 4-Bromofluorobenzene | | | **48.0** | 50.00 | | 96.0 | | | 01/15/2016 |
| Surr: Toluene-d8 | | | **47.5** | 50.00 | | 95.0 | | | 01/15/2016 |

# Receiving Check List

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010697
**Report Date:** 19-Jan-16

**Carrier:** Nick Harvey

**Received By:** MAK

**Completed by:** M. Kaminski
**On:** 14-Jan-16
Mary Anne Kaminski

**Reviewed by:** Elizabeth A. Hurley
**On:** 14-Jan-16
Elizabeth A. Hurley

**Pages to follow:** Chain of custody 3 Extra pages included 0

| | | | | |
|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ | Temp °C 8.02 |
| Type of thermal preservation? | None ☐ | Ice ☑ | Blue Ice ☐ | Dry Ice ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | | |
| Sample containers intact? | Yes ☑ | No ☐ | | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | | |
| All samples received within holding time? | Yes ☑ | No ☐ | | |
| Reported field parameters measured: | Field ☐ | Lab ☐ | NA ☑ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | | |

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

| | | | |
|---|---|---|---|
| Water – at least one vial per sample has zero headspace? | Yes ☑ | No ☐ | No VOA vials ☐ |
| Water - TOX containers have zero headspace? | Yes ☐ | No ☐ | No TOX containers ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | NA ☐ |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes ☐ | No ☐ | NA ☑ |

**Any No responses must be detailed below or on the COC.**

Trip Blank collection date and time will be reported as the received date and time (end of trip).

# CHAIN OF CUSTODY

pg. 1 of 3 Work order # 16010647

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☐ ICE ☐ BLUE ICE ☐ NO ICE 8.02 °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes** zero head space made 1/14/16

**Client Comments:** Meet MRBCA DTLs.

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number** NGA 2015-0461.21

**Sample Collector's Name** Travis Clayton

**Results Requested** ☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

**Billing Instructions** 2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 | Courier |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16010647 001 | TB-9 | 1-13-2016 8:00 | | | | | | | | 2 | | X | | | | | | | | X | |
| 002 | SCI-61A(0-3) | 8:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 003 | SCI-61B(15-20) | 8:45 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 004 | SCI-63A(0-3) | 9:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 005 | SCI-63B(15-20) | 9:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 006 | SCI-64A(0-3) | 9:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 007 | SCI-64B(15-20) | 9:55 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 008 | SCI-65A(0-3) | 10:10 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 009 | SCI-65B(15-20) | 10:25 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |
| 010 | SCI-66A(0-3) | 10:45 | 2 | | | | | | | 3 | | | X | | | | X | | X | X | |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 1-13-2016 4:30 | | 1/13/16 4:30 |
| | 1/13/16 17:10 | M. Kamuraski | 1/13/16 17:10 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

# CHAIN OF CUSTODY

pg. 2 of 3 Work order # 16010697

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**

**Client Comments:**

Meet MRBCA DTLs.

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☐ No
Are these samples known to be hazardous? ☐ Yes ☐ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16010697 011 | SCI-66B(10-15) | 1-13-2016 10:55 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 012 | SCI-67A(0-3) | 11:05 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 013 | SCI-67B(15-20) | 11:25 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 014 | SCI-67D(15-20) | 11:25 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 015 | SCI-68A(0-3) | 12:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 016 | SCI-68B(15-20) | 12:25 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 017 | SCI-69A(0-3) | 12:40 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 018 | SCI-69B(15-20) | 12:55 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 019 | SCI-70A(0-3) | 13:05 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 020 | SCI-70B(15-20) | 13:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 1-13-2016 4:30 | | 1/13/16 4:30 |
| | 1/13/16 17:10 | M Ramirez | 1/13/16 17:10 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

# CHAIN OF CUSTODY

pg. 3 of 3 Work order # 1601 0697

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
**Preserved in:** ☐ LAB ☐ FIELD

**FOR LAB USE ONLY**

**Lab Notes**
*SCI-75A(0-3) does not need PCBs) per Ben Butterfield MAC 1/14/16

**Client Comments:**
Meet MRBCA DTLs

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1601 0697 021 | SCI-70D(15-20) | 1-13-2016 13:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 022 | SCI-71A(0-3) | 13:40 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 023 | SCI-71B(15-20) | 13:55 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 024 | TB-10 | 14:00 | | | | | | | | 2 | | X | | | | | | | | X |
| 025 | SCI-75A(0-3) | 14:20 | 2 | | | | | | | 3 | | | X | | | | X | -/ | X | X |
| 026 | SCI-75B(15-20)* | 14:35 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 027 | SCI-77A(0-3) | 14:50 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 028 | SCI-77B(15-20) | 15:10 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 029 | EB-6 | 15:45 | | | | | | | | 2 | ~~X~~ | X | | | | | | | | X |

TSC 1-13-2016

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 1-13-2016 16:30 | | 1/13/16 1730 |
| | 1/13/16 1710 | M. Kamunda | 1/13/16 17:10 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

January 19, 2016

Ben Butterfield
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301
TEL: (618) 206-3028
FAX: (636) 949-8269

**RE:** NGA 2015-0461.21 **WorkOrder:** 16010608

Dear Ben Butterfield:

TEKLAB, INC received 29 samples on 1/12/2016 4:50:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Project Manager
(618)344-1004 ex 16
MAustin@teklabinc.com

# Report Contents

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608

**Report Date:** 19-Jan-16

**This reporting package includes the following:**


| | |
|---|---|
| Cover Letter | 1 |
| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 4 |
| Laboratory Results | 5 |
| Quality Control Results | 92 |
| Receiving Check List | 128 |
| Chain of Custody | Appended |

# Definitions



**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## Abbr Definition

| | |
|---|---|
| CCV | Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration. |
| DF | Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors. |
| DNI | Did not ignite |
| DUP | Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. |
| ICV | Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated. |
| IDPH | IL Dept. of Public Health |
| LCS | Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request). |
| LCSD | Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MBLK | Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses. |
| MDL | Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. |
| MS | Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MSD | Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MW | Molecular weight |
| ND | Not Detected at the Reporting Limit |
| NELAP | NELAP Accredited |
| PQL | Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request). |
| RL | The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL. |
| RPD | Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request). |
| SPK | The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. |
| Surr | Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. |
| TIC | Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET" |
| TNTC | Too numerous to count ( > 200 CFU ) |

## Qualifiers

| | | | |
|---|---|---|---|
| # - | Unknown hydrocarbon | B - | Analyte detected in associated Method Blank |
| E - | Value above quantitation range | H - | Holding times exceeded |
| I - | Associated internal standard was outside method criteria | J - | Analyte detected below quantitation limits |
| M - | Manual Integration used to determine area response | ND - | Not Detected at the Reporting Limit |
| R - | RPD outside accepted recovery limits | S - | Spike Recovery outside recovery limits |
| T - | TIC(Tentatively identified compound) | X - | Value exceeds Maximum Contaminant Level |

# Case Narrative

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608
**Report Date:** 19-Jan-16

**Cooler Receipt Temp:** 2.02 °C

## Locations and Accreditations

| | Collinsville | Springfield | Kansas City | Collinsville Air |
|---|---|---|---|---|
| Address | 5445 Horseshoe Lake Road | 3920 Pintail Dr | 8421 Nieman Road | 5445 Horseshoe Lake Road |
| | Collinsville, IL 62234-7425 | Springfield, IL 62711-9415 | Lenexa, KS 66214 | Collinsville, IL 62234-7425 |
| Phone | (618) 344-1004 | (217) 698-1004 | (913) 541-1998 | (618) 344-1004 |
| Fax | (618) 344-1005 | (217) 698-1005 | (913) 541-1998 | (618) 344-1005 |
| Email | jhriley@teklabinc.com | KKlostermann@teklabinc.com | dthompson@teklabinc.com | EHurley@teklabinc.com |

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|---|---|---|---|---|---|
| Illinois | IEPA | 100226 | NELAP | 1/31/2017 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 1/31/2016 | Collinsville |
| Louisiana | LDEQ | 166493 | NELAP | 6/30/2016 | Collinsville |
| Louisiana | LDEQ | 166578 | NELAP | 6/30/2016 | Collinsville |
| Texas | TCEQ | T104704515-12-1 | NELAP | 7/31/2016 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2016 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2017 | Collinsville |
| Kentucky | KDEP | 98006 | | 12/31/2016 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2016 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2017 | Collinsville |
| Oklahoma | ODEQ | 9978 | | 8/31/2016 | Collinsville |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-001
**Client Sample ID:** SCI-47A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.4** | % | 1 | 01/14/2016 16:06 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **10.1** | mg/Kg-dry | 1 | 01/14/2016 10:47 | 115589 |
| Barium | NELAP | 0.23 | | **183** | mg/Kg-dry | 1 | 01/14/2016 10:47 | 115589 |
| Cadmium | NELAP | 0.19 | | **0.20** | mg/Kg-dry | 1 | 01/14/2016 10:47 | 115589 |
| Chromium | NELAP | 0.46 | | **16.9** | mg/Kg-dry | 1 | 01/14/2016 10:47 | 115589 |
| Lead | NELAP | 1.39 | | **17.2** | mg/Kg-dry | 1 | 01/14/2016 10:47 | 115589 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 01/14/2016 10:47 | 115589 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/14/2016 10:47 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.019** | mg/Kg-dry | 1 | 01/14/2016 10:01 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Anthracene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Chrysene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Fluoranthene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Fluorene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Pyrene | NELAP | 0.0432 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| TPH-DRO (C10 - C21) | | 15.3 | J | **8.2** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| TPH-ORO (C21 - C35) | | 15.3 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 18:37 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **68.1** | %REC | 1 | 01/13/2016 18:37 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **64.1** | %REC | 1 | 01/13/2016 18:37 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **81.7** | %REC | 1 | 01/13/2016 18:37 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,1-Dichloro-2-propanone | | 48.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-001
**Client Sample ID:** SCI-47A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 1-Chlorobutane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 2-Butanone | NELAP | 48.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 2-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 2-Hexanone | NELAP | 48.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 2-Nitropropane | NELAP | 48.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 4-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 48.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Acetone | NELAP | 48.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Acetonitrile | NELAP | 97.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Acrolein | NELAP | 97.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Acrylonitrile | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Allyl chloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Bromobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Bromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Bromodichloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Bromoform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Bromomethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Carbon disulfide | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Carbon tetrachloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Chlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Chloroethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Chloroform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Chloromethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Cyclohexanone | | 97.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Dibromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Dibromomethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Diisopropyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Ethyl ether | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Ethyl methacrylate | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Ethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Ethyl-tert-butyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Hexachlorobutadiene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Hexachloroethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Iodomethane | NELAP | 9.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Isopropylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| m,p-Xylenes | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Methacrylonitrile | NELAP | 48.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-001
**Client Sample ID:** SCI-47A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Methylacrylate | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Methylene chloride | NELAP | 4.9 | J | **1.6** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Naphthalene | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| n-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| n-Heptane | | 19.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| n-Hexane | | 19.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Nitrobenzene | NELAP | 97.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| n-Propylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| o-Xylene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Pentachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| p-Isopropyltoluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Propionitrile | NELAP | 48.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| sec-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Styrene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| tert-Amyl methyl ether | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| tert-Butyl alcohol | NELAP | 48.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| tert-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Tetrachloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Tetrahydrofuran | NELAP | 48.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Toluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| TPH - GRO (C6 - C10) | | 487 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Trichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Trichlorofluoromethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Vinyl acetate | NELAP | 48.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Xylenes, Total | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 13:45 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **98.0** | %REC | 1 | 01/13/2016 13:45 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.7** | %REC | 1 | 01/13/2016 13:45 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **97.9** | %REC | 1 | 01/13/2016 13:45 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-002
**Client Sample ID:** SCI-47B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.6** | % | 1 | 01/14/2016 16:07 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **5.68** | mg/Kg-dry | 1 | 01/14/2016 10:51 | 115589 |
| Barium | NELAP | 0.24 | | **84.1** | mg/Kg-dry | 1 | 01/14/2016 10:51 | 115589 |
| Cadmium | NELAP | 0.19 | | **0.24** | mg/Kg-dry | 1 | 01/14/2016 10:51 | 115589 |
| Chromium | NELAP | 0.47 | | **22.1** | mg/Kg-dry | 1 | 01/14/2016 10:51 | 115589 |
| Lead | NELAP | 1.42 | | **13.8** | mg/Kg-dry | 1 | 01/14/2016 10:51 | 115589 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/14/2016 10:51 | 115589 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/14/2016 10:51 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.032** | mg/Kg-dry | 1 | 01/14/2016 10:03 | 115590 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 37.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:36 | 115591 |
| Aroclor 1221 | NELAP | 37.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:36 | 115591 |
| Aroclor 1232 | NELAP | 37.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:36 | 115591 |
| Aroclor 1242 | NELAP | 37.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:36 | 115591 |
| Aroclor 1248 | NELAP | 37.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:36 | 115591 |
| Aroclor 1254 | NELAP | 37.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:36 | 115591 |
| Aroclor 1260 | NELAP | 37.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:36 | 115591 |
| Surr: Decachlorobiphenyl | | 5-156 | | **83.1** | %REC | 1 | 01/14/2016 13:36 | 115591 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **75.8** | %REC | 1 | 01/14/2016 13:36 | 115591 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Chrysene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Fluorene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Pyrene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| TPH-DRO (C10 - C21) | | 14.7 | J | **7.9** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| TPH-ORO (C21 - C35) | | 14.7 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:07 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **70.5** | %REC | 1 | 01/13/2016 19:07 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **71.1** | %REC | 1 | 01/13/2016 19:07 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **88.1** | %REC | 1 | 01/13/2016 19:07 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,1-Dichloro-2-propanone | | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-002 **Client Sample ID:** SCI-47B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 2-Butanone | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 2-Hexanone | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 2-Nitropropane | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Acetone | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Acetonitrile | NELAP | 90.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Acrolein | NELAP | 90.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Acrylonitrile | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Bromomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Chloroethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Chloromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Cyclohexanone | | 90.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-002 **Client Sample ID:** SCI-47B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Ethyl methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Ethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Ethyl-tert-butyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Hexachlorobutadiene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Hexachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Iodomethane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Isopropylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| m,p-Xylenes | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Methacrylonitrile | NELAP | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Methylacrylate | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Naphthalene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| n-Heptane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| n-Hexane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Nitrobenzene | NELAP | 90.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Propionitrile | NELAP | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| tert-Butyl alcohol | NELAP | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Tetrahydrofuran | NELAP | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| TPH - GRO (C6 - C10) | | 452 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Vinyl acetate | NELAP | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:12 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **106.5** | %REC | 1 | 01/13/2016 14:12 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.1** | %REC | 1 | 01/13/2016 14:12 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **99.0** | %REC | 1 | 01/13/2016 14:12 | 115581 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-003
**Client Sample ID:** SCI-47D (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.5** | % | 1 | 01/14/2016 16:08 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **5.78** | mg/Kg-dry | 1 | 01/14/2016 10:54 | 115589 |
| Barium | NELAP | 0.25 | | **89.7** | mg/Kg-dry | 1 | 01/14/2016 10:54 | 115589 |
| Cadmium | NELAP | 0.20 | | **0.20** | mg/Kg-dry | 1 | 01/14/2016 10:54 | 115589 |
| Chromium | NELAP | 0.49 | | **20.3** | mg/Kg-dry | 1 | 01/14/2016 10:54 | 115589 |
| Lead | NELAP | 1.47 | | **13.1** | mg/Kg-dry | 1 | 01/14/2016 10:54 | 115589 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 01/14/2016 10:54 | 115589 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 01/14/2016 10:54 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.029** | mg/Kg-dry | 1 | 01/14/2016 10:06 | 115590 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:53 | 115591 |
| Aroclor 1221 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:53 | 115591 |
| Aroclor 1232 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:53 | 115591 |
| Aroclor 1242 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:53 | 115591 |
| Aroclor 1248 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:53 | 115591 |
| Aroclor 1254 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:53 | 115591 |
| Aroclor 1260 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:53 | 115591 |
| Surr: Decachlorobiphenyl | | 5-156 | | **83.6** | %REC | 1 | 01/14/2016 13:53 | 115591 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **72.1** | %REC | 1 | 01/14/2016 13:53 | 115591 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Anthracene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Chrysene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Fluoranthene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Fluorene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Pyrene | NELAP | 0.0417 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| TPH-DRO (C10 - C21) | | 14.7 | J | **8.5** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| TPH-ORO (C21 - C35) | | 14.7 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 19:36 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **72.5** | %REC | 1 | 01/13/2016 19:36 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **68.1** | %REC | 1 | 01/13/2016 19:36 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.5** | %REC | 1 | 01/13/2016 19:36 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,1-Dichloro-2-propanone | | 43.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-003
**Client Sample ID:** SCI-47D (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,2-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 1-Chlorobutane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 2-Butanone | NELAP | 43.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 2-Chlorotoluene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 2-Hexanone | NELAP | 43.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 2-Nitropropane | NELAP | 43.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 4-Chlorotoluene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 43.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Acetone | NELAP | 43.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Acetonitrile | NELAP | 86.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Acrolein | NELAP | 86.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Acrylonitrile | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Allyl chloride | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Bromobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Bromochloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Bromodichloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Bromoform | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Bromomethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Carbon disulfide | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Carbon tetrachloride | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Chlorobenzene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Chloroethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Chloroform | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Chloromethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Cyclohexanone | | 86.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Dibromochloromethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Dibromomethane | NELAP | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Dichlorodifluoromethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Diisopropyl ether | | 4.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-003
**Client Sample ID:** SCI-47D (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Ethyl methacrylate | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Ethylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Ethyl-tert-butyl ether | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Hexachlorobutadiene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Hexachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Iodomethane | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Isopropylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| m,p-Xylenes | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Methacrylonitrile | NELAP | 43.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Methyl Methacrylate | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Methylacrylate | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Methylene chloride | NELAP | 4.3 | J | **1.2** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Naphthalene | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| n-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| n-Heptane | | 17.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| n-Hexane | | 17.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Nitrobenzene | NELAP | 86.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| n-Propylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| o-Xylene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Pentachloroethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| p-Isopropyltoluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Propionitrile | NELAP | 43.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| sec-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Styrene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| tert-Amyl methyl ether | | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| tert-Butyl alcohol | NELAP | 43.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| tert-Butylbenzene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Tetrachloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Tetrahydrofuran | NELAP | 43.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Toluene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| TPH - GRO (C6 - C10) | | 434 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Trichloroethene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Trichlorofluoromethane | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Vinyl acetate | NELAP | 43.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Xylenes, Total | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 14:38 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.9** | %REC | 1 | 01/13/2016 14:38 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.9** | %REC | 1 | 01/13/2016 14:38 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **97.8** | %REC | 1 | 01/13/2016 14:38 | 115581 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-004
**Client Sample ID:** SCI-48A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 9:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **22.6** | % | 1 | 01/14/2016 16:08 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **10.6** | mg/Kg-dry | 1 | 01/14/2016 10:58 | 115589 |
| Barium | NELAP | 0.24 | | **185** | mg/Kg-dry | 1 | 01/14/2016 10:58 | 115589 |
| Cadmium | NELAP | 0.19 | J | **0.16** | mg/Kg-dry | 1 | 01/14/2016 10:58 | 115589 |
| Chromium | NELAP | 0.48 | | **19.6** | mg/Kg-dry | 1 | 01/14/2016 10:58 | 115589 |
| Lead | NELAP | 1.44 | | **14.0** | mg/Kg-dry | 1 | 01/14/2016 10:58 | 115589 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/14/2016 10:58 | 115589 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/14/2016 10:58 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.038** | mg/Kg-dry | 1 | 01/14/2016 10:15 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Anthracene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Chrysene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Fluoranthene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Fluorene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Pyrene | NELAP | 0.0438 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| TPH-DRO (C10 - C21) | | 15.5 | J | **8.5** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| TPH-ORO (C21 - C35) | | 15.5 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:06 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.5** | %REC | 1 | 01/13/2016 20:06 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **68.2** | %REC | 1 | 01/13/2016 20:06 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.8** | %REC | 1 | 01/13/2016 20:06 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,1-Dichloro-2-propanone | | 48.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-004 **Client Sample ID:** SCI-48A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 9:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 1-Chlorobutane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 2-Butanone | NELAP | 48.1 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 2-Chlorotoluene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 2-Hexanone | NELAP | 48.1 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 2-Nitropropane | NELAP | 48.1 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 4-Chlorotoluene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 48.1 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Acetone | NELAP | 48.1 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Acetonitrile | NELAP | 96.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Acrolein | NELAP | 96.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Acrylonitrile | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Allyl chloride | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Bromobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Bromochloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Bromodichloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Bromoform | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Bromomethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Carbon disulfide | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Carbon tetrachloride | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Chlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Chloroethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Chloroform | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Chloromethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Cyclohexanone | | 96.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Dibromochloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Dibromomethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Diisopropyl ether | | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Ethyl ether | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Ethyl methacrylate | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Ethylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Ethyl-tert-butyl ether | | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Hexachlorobutadiene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Hexachloroethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Iodomethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Isopropylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| m,p-Xylenes | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Methacrylonitrile | NELAP | 48.1 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-004
**Client Sample ID:** SCI-48A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 9:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Methylacrylate | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Methylene chloride | NELAP | 4.8 | J | **1.2** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Naphthalene | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| n-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| n-Heptane | | 19.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| n-Hexane | | 19.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Nitrobenzene | NELAP | 96.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| n-Propylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| o-Xylene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Pentachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| p-Isopropyltoluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Propionitrile | NELAP | 48.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| sec-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Styrene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| tert-Amyl methyl ether | | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| tert-Butyl alcohol | NELAP | 48.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| tert-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Tetrachloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Tetrahydrofuran | NELAP | 48.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Toluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| TPH - GRO (C6 - C10) | | 481 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Trichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Trichlorofluoromethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Vinyl acetate | NELAP | 48.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Xylenes, Total | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:04 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.9** | %REC | 1 | 01/13/2016 15:04 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **97.6** | %REC | 1 | 01/13/2016 15:04 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **98.8** | %REC | 1 | 01/13/2016 15:04 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-005
**Client Sample ID:** SCI-48B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 9:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **22.6** | % | 1 | 01/14/2016 16:08 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **5.73** | mg/Kg-dry | 1 | 01/14/2016 11:19 | 115589 |
| Barium | NELAP | 0.24 | | **100** | mg/Kg-dry | 1 | 01/14/2016 11:19 | 115589 |
| Cadmium | NELAP | 0.19 | J | **0.16** | mg/Kg-dry | 1 | 01/14/2016 11:19 | 115589 |
| Chromium | NELAP | 0.48 | | **19.0** | mg/Kg-dry | 1 | 01/14/2016 11:19 | 115589 |
| Lead | NELAP | 1.44 | | **9.02** | mg/Kg-dry | 1 | 01/14/2016 11:19 | 115589 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/14/2016 11:19 | 115589 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/14/2016 11:19 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.031** | mg/Kg-dry | 1 | 01/14/2016 10:17 | 115590 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:10 | 115591 |
| Aroclor 1221 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:10 | 115591 |
| Aroclor 1232 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:10 | 115591 |
| Aroclor 1242 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:10 | 115591 |
| Aroclor 1248 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:10 | 115591 |
| Aroclor 1254 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:10 | 115591 |
| Aroclor 1260 | NELAP | 37.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:10 | 115591 |
| Surr: Decachlorobiphenyl | | 5-156 | | **92.5** | %REC | 1 | 01/14/2016 14:10 | 115591 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **83.7** | %REC | 1 | 01/14/2016 14:10 | 115591 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Anthracene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Chrysene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Fluoranthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Fluorene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Pyrene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| TPH-DRO (C10 - C21) | | 15.4 | J | **8.4** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| TPH-ORO (C21 - C35) | | 15.4 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 20:36 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **73.0** | %REC | 1 | 01/13/2016 20:36 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **69.4** | %REC | 1 | 01/13/2016 20:36 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **81.4** | %REC | 1 | 01/13/2016 20:36 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,1-Dichloro-2-propanone | | 48.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-005 **Client Sample ID:** SCI-48B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 9:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,2-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 1-Chlorobutane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 2-Butanone | NELAP | 48.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 2-Chlorotoluene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 2-Hexanone | NELAP | 48.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 2-Nitropropane | NELAP | 48.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 4-Chlorotoluene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 48.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Acetone | NELAP | 48.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Acetonitrile | NELAP | 96.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Acrolein | NELAP | 96.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Acrylonitrile | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Allyl chloride | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Bromobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Bromochloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Bromodichloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Bromoform | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Bromomethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Carbon disulfide | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Carbon tetrachloride | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Chlorobenzene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Chloroethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Chloroform | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Chloromethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Cyclohexanone | | 96.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Dibromochloromethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Dibromomethane | NELAP | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Diisopropyl ether | | 4.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-005 **Client Sample ID:** SCI-48B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 9:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Ethyl methacrylate | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Ethylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Ethyl-tert-butyl ether | | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Hexachlorobutadiene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Hexachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Iodomethane | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Isopropylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| m,p-Xylenes | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Methacrylonitrile | NELAP | 48.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Methyl Methacrylate | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Methylacrylate | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Methylene chloride | NELAP | 4.8 | J | **1.1** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Naphthalene | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| n-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| n-Heptane | | 19.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| n-Hexane | | 19.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Nitrobenzene | NELAP | 96.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| n-Propylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| o-Xylene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Pentachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| p-Isopropyltoluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Propionitrile | NELAP | 48.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| sec-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Styrene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| tert-Amyl methyl ether | | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| tert-Butyl alcohol | NELAP | 48.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| tert-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Tetrachloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Tetrahydrofuran | NELAP | 48.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Toluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| TPH - GRO (C6 - C10) | | 482 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Trichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Trichlorofluoromethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Vinyl acetate | NELAP | 48.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Xylenes, Total | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:30 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **105.6** | %REC | 1 | 01/13/2016 15:30 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **96.2** | %REC | 1 | 01/13/2016 15:30 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **96.4** | %REC | 1 | 01/13/2016 15:30 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-006
**Client Sample ID:** SCI-49A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 9:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.1** | % | 1 | 01/14/2016 16:09 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **13.1** | mg/Kg-dry | 1 | 01/14/2016 11:23 | 115589 |
| Barium | NELAP | 0.24 | | **201** | mg/Kg-dry | 1 | 01/14/2016 11:23 | 115589 |
| Cadmium | NELAP | 0.19 | | **0.20** | mg/Kg-dry | 1 | 01/14/2016 11:23 | 115589 |
| Chromium | NELAP | 0.48 | | **26.6** | mg/Kg-dry | 1 | 01/14/2016 11:23 | 115589 |
| Lead | NELAP | 1.44 | | **16.9** | mg/Kg-dry | 1 | 01/14/2016 11:23 | 115589 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/14/2016 11:23 | 115589 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/14/2016 11:23 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.030** | mg/Kg-dry | 1 | 01/14/2016 10:19 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Anthracene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Chrysene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Fluoranthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Fluorene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Pyrene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| TPH-DRO (C10 - C21) | | 15.1 | J | **8.6** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| TPH-ORO (C21 - C35) | | 15.1 | J | **8.1** | mg/Kg-dry | 1 | 01/13/2016 21:05 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.5** | %REC | 1 | 01/13/2016 21:05 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **67.8** | %REC | 1 | 01/13/2016 21:05 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **78.1** | %REC | 1 | 01/13/2016 21:05 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,1-Dichloro-2-propanone | | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-006
**Client Sample ID:** SCI-49A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 9:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 2-Butanone | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 2-Hexanone | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 2-Nitropropane | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Acetone | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Acetonitrile | NELAP | 94.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Acrolein | NELAP | 94.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Acrylonitrile | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Bromomethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Chloroethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Chloromethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Cyclohexanone | | 94.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Iodomethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Methacrylonitrile | NELAP | 47.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-006
**Client Sample ID:** SCI-49A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 9:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Methylacrylate | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Methylene chloride | NELAP | 4.7 | J | **1.3** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Naphthalene | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| n-Heptane | | 19.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| n-Hexane | | 19.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Nitrobenzene | NELAP | 94.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Propionitrile | NELAP | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| tert-Butyl alcohol | NELAP | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Tetrahydrofuran | NELAP | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| TPH - GRO (C6 - C10) | | 474 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Vinyl acetate | NELAP | 47.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 15:56 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **99.0** | %REC | 1 | 01/13/2016 15:56 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.0** | %REC | 1 | 01/13/2016 15:56 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **98.7** | %REC | 1 | 01/13/2016 15:56 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-007
**Client Sample ID:** SCI-49B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 10:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.6** | % | 1 | 01/14/2016 16:09 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **9.74** | mg/Kg-dry | 1 | 01/14/2016 11:26 | 115589 |
| Barium | NELAP | 0.25 | | **128** | mg/Kg-dry | 1 | 01/14/2016 11:26 | 115589 |
| Cadmium | NELAP | 0.20 | | **0.48** | mg/Kg-dry | 1 | 01/14/2016 11:26 | 115589 |
| Chromium | NELAP | 0.50 | | **40.0** | mg/Kg-dry | 1 | 01/14/2016 11:26 | 115589 |
| Lead | NELAP | 1.50 | | **16.8** | mg/Kg-dry | 1 | 01/14/2016 11:26 | 115589 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/14/2016 11:26 | 115589 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/14/2016 11:26 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.054** | mg/Kg-dry | 1 | 01/14/2016 10:27 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Anthracene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Chrysene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Fluoranthene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Fluorene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Pyrene | NELAP | 0.0431 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| TPH-DRO (C10 - C21) | | 15.2 | J | **8.3** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| TPH-ORO (C21 - C35) | | 15.2 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 21:35 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **70.7** | %REC | 1 | 01/13/2016 21:35 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.0** | %REC | 1 | 01/13/2016 21:35 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **83.6** | %REC | 1 | 01/13/2016 21:35 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,1-Dichloro-2-propanone | | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-007 **Client Sample ID:** SCI-49B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 10:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 2-Butanone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 2-Hexanone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 2-Nitropropane | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Acetone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Acetonitrile | NELAP | 91.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Acrolein | NELAP | 91.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Cyclohexanone | | 91.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Iodomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Methacrylonitrile | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-007
**Client Sample ID:** SCI-49B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 10:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Methylene chloride | NELAP | 4.6 | J | **1.1** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| n-Heptane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| n-Hexane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Nitrobenzene | NELAP | 91.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Propionitrile | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| tert-Butyl alcohol | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Tetrahydrofuran | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| TPH - GRO (C6 - C10) | | 458 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Vinyl acetate | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:22 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **102.6** | %REC | 1 | 01/13/2016 16:22 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.1** | %REC | 1 | 01/13/2016 16:22 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **99.3** | %REC | 1 | 01/13/2016 16:22 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-008
**Client Sample ID:** SCI-50A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.8** | % | 1 | 01/14/2016 16:09 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **10.9** | mg/Kg-dry | 1 | 01/14/2016 11:30 | 115589 |
| Barium | NELAP | 0.25 | | **180** | mg/Kg-dry | 1 | 01/14/2016 11:30 | 115589 |
| Cadmium | NELAP | 0.20 | J | **0.11** | mg/Kg-dry | 1 | 01/14/2016 11:30 | 115589 |
| Chromium | NELAP | 0.50 | | **21.1** | mg/Kg-dry | 1 | 01/14/2016 11:30 | 115589 |
| Lead | NELAP | 1.50 | | **15.4** | mg/Kg-dry | 1 | 01/14/2016 11:30 | 115589 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/14/2016 11:30 | 115589 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/14/2016 11:30 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.023** | mg/Kg-dry | 1 | 01/14/2016 10:30 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Chrysene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Fluorene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Pyrene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| TPH-DRO (C10 - C21) | | 15.0 | J | **8.6** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| TPH-ORO (C21 - C35) | | 15.0 | J | **7.9** | mg/Kg-dry | 1 | 01/13/2016 22:05 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **80.8** | %REC | 1 | 01/13/2016 22:05 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **74.4** | %REC | 1 | 01/13/2016 22:05 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **94.6** | %REC | 1 | 01/13/2016 22:05 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,1-Dichloro-2-propanone | | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-008 **Client Sample ID:** SCI-50A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 2-Butanone | NELAP | 47.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 2-Hexanone | NELAP | 47.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 2-Nitropropane | NELAP | 47.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 47.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Acetone | NELAP | 47.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Acetonitrile | NELAP | 93.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Acrolein | NELAP | 93.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Acrylonitrile | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Bromomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Chloroethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Chloromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Cyclohexanone | | 93.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Iodomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Methacrylonitrile | NELAP | 47.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-008
**Client Sample ID:** SCI-50A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Methylacrylate | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Methylene chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Naphthalene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| n-Heptane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| n-Hexane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Nitrobenzene | NELAP | 93.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Propionitrile | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| tert-Butyl alcohol | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Tetrahydrofuran | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| TPH - GRO (C6 - C10) | | 470 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Vinyl acetate | NELAP | 47.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 16:48 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **110.2** | %REC | 1 | 01/13/2016 16:48 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.2** | %REC | 1 | 01/13/2016 16:48 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **96.8** | %REC | 1 | 01/13/2016 16:48 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-009
**Client Sample ID:** SCI-50B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.4** | % | 1 | 01/14/2016 16:10 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **6.04** | mg/Kg-dry | 1 | 01/14/2016 11:34 | 115589 |
| Barium | NELAP | 0.23 | | **136** | mg/Kg-dry | 1 | 01/14/2016 11:34 | 115589 |
| Cadmium | NELAP | 0.19 | J | **0.18** | mg/Kg-dry | 1 | 01/14/2016 11:34 | 115589 |
| Chromium | NELAP | 0.46 | | **19.8** | mg/Kg-dry | 1 | 01/14/2016 11:34 | 115589 |
| Lead | NELAP | 1.39 | | **9.22** | mg/Kg-dry | 1 | 01/14/2016 11:34 | 115589 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 01/14/2016 11:34 | 115589 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/14/2016 11:34 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.032** | mg/Kg-dry | 1 | 01/14/2016 10:32 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Anthracene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Chrysene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Fluoranthene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Fluorene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Pyrene | NELAP | 0.0413 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| TPH-DRO (C10 - C21) | | 14.6 | J | **7.7** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| TPH-ORO (C21 - C35) | | 14.6 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 22:34 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **67.6** | %REC | 1 | 01/13/2016 22:34 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **63.9** | %REC | 1 | 01/13/2016 22:34 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **81.9** | %REC | 1 | 01/13/2016 22:34 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,1-Dichloro-2-propanone | | 45.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-009 **Client Sample ID:** SCI-50B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 2-Butanone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 2-Hexanone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 2-Nitropropane | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Acetone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Acetonitrile | NELAP | 90.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Acrolein | NELAP | 90.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Acrylonitrile | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Bromomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Chloroethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Chloromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Cyclohexanone | | 90.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Iodomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Methacrylonitrile | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-009
**Client Sample ID:** SCI-50B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 10:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Methylacrylate | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Naphthalene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| n-Heptane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| n-Hexane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Nitrobenzene | NELAP | 90.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Propionitrile | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| tert-Butyl alcohol | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Tetrahydrofuran | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| TPH - GRO (C6 - C10) | | 453 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Vinyl acetate | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:14 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **109.0** | %REC | 1 | 01/13/2016 17:14 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.3** | %REC | 1 | 01/13/2016 17:14 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **96.9** | %REC | 1 | 01/13/2016 17:14 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-010 **Client Sample ID:** SCI-51A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 10:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **12.3** | % | 1 | 01/14/2016 16:10 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **9.30** | mg/Kg-dry | 1 | 01/14/2016 11:37 | 115589 |
| Barium | NELAP | 0.24 | | **132** | mg/Kg-dry | 1 | 01/14/2016 11:37 | 115589 |
| Cadmium | NELAP | 0.19 | | **0.21** | mg/Kg-dry | 1 | 01/14/2016 11:37 | 115589 |
| Chromium | NELAP | 0.47 | | **19.3** | mg/Kg-dry | 1 | 01/14/2016 11:37 | 115589 |
| Lead | NELAP | 1.42 | | **37.7** | mg/Kg-dry | 1 | 01/14/2016 11:37 | 115589 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/14/2016 11:37 | 115589 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/14/2016 11:37 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.137** | mg/Kg-dry | 1 | 01/14/2016 10:34 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0387 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Anthracene | NELAP | 0.0387 | J | **0.038** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0387 | | **0.205** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0387 | | **0.178** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0387 | | **0.228** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0387 | | **0.0941** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Chrysene | NELAP | 0.0387 | | **0.177** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0387 | J | **0.026** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Fluoranthene | NELAP | 0.0387 | | **0.393** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Fluorene | NELAP | 0.0387 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Pyrene | NELAP | 0.0387 | | **0.342** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| TPH-DRO (C10 - C21) | | 13.7 | J | **8.5** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| TPH-ORO (C21 - C35) | | 13.7 | | **14.7** | mg/Kg-dry | 1 | 01/13/2016 23:04 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **61.5** | %REC | 1 | 01/13/2016 23:04 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **57.2** | %REC | 1 | 01/13/2016 23:04 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **74.1** | %REC | 1 | 01/13/2016 23:04 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,1-Dichloro-2-propanone | | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-010
**Client Sample ID:** SCI-51A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 10:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 2-Butanone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 2-Hexanone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 2-Nitropropane | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Acetone | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Acetonitrile | NELAP | 91.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Acrolein | NELAP | 91.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Cyclohexanone | | 91.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Iodomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Methacrylonitrile | NELAP | 45.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-010
**Client Sample ID:** SCI-51A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 10:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Methylene chloride | NELAP | 4.6 | J | **1.4** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| n-Heptane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| n-Hexane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Nitrobenzene | NELAP | 91.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Propionitrile | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| tert-Butyl alcohol | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Tetrahydrofuran | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| TPH - GRO (C6 - C10) | | 458 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Vinyl acetate | NELAP | 45.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 17:40 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.0** | %REC | 1 | 01/13/2016 17:40 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **111.2** | %REC | 1 | 01/13/2016 17:40 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **104.8** | %REC | 1 | 01/13/2016 17:40 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-011
**Client Sample ID:** SCI-51B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 11:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.8** | % | 1 | 01/14/2016 16:11 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **4.90** | mg/Kg-dry | 1 | 01/14/2016 11:41 | 115589 |
| Barium | NELAP | 0.23 | | **71.8** | mg/Kg-dry | 1 | 01/14/2016 11:41 | 115589 |
| Cadmium | NELAP | 0.19 | J | **0.16** | mg/Kg-dry | 1 | 01/14/2016 11:41 | 115589 |
| Chromium | NELAP | 0.46 | | **17.4** | mg/Kg-dry | 1 | 01/14/2016 11:41 | 115589 |
| Lead | NELAP | 1.39 | | **9.92** | mg/Kg-dry | 1 | 01/14/2016 11:41 | 115589 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 01/14/2016 11:41 | 115589 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 01/14/2016 11:41 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.029** | mg/Kg-dry | 1 | 01/14/2016 10:37 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Anthracene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Chrysene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Fluoranthene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Fluorene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Pyrene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| TPH-DRO (C10 - C21) | | 14.5 | J | **7.8** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| TPH-ORO (C21 - C35) | | 14.5 | | **ND** | mg/Kg-dry | 1 | 01/13/2016 23:34 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **69.2** | %REC | 1 | 01/13/2016 23:34 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **65.8** | %REC | 1 | 01/13/2016 23:34 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **79.8** | %REC | 1 | 01/13/2016 23:34 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,1-Dichloro-2-propanone | | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-011 **Client Sample ID:** SCI-51B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 11:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 2-Butanone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 2-Hexanone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 2-Nitropropane | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Acetone | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Acetonitrile | NELAP | 88.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Acrolein | NELAP | 88.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Acrylonitrile | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Bromomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Chloroethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Chloromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Cyclohexanone | | 88.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Dichlorodifluoromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Iodomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Methacrylonitrile | NELAP | 44.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-011
**Client Sample ID:** SCI-51B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 11:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Methylacrylate | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Naphthalene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| n-Heptane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| n-Hexane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Nitrobenzene | NELAP | 88.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Propionitrile | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| tert-Butyl alcohol | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Tetrahydrofuran | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| TPH - GRO (C6 - C10) | | 440 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Vinyl acetate | NELAP | 44.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:07 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **110.5** | %REC | 1 | 01/13/2016 18:07 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.0** | %REC | 1 | 01/13/2016 18:07 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **97.2** | %REC | 1 | 01/13/2016 18:07 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-012 **Client Sample ID:** SCI-52A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.4** | % | 1 | 01/14/2016 16:13 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **6.15** | mg/Kg-dry | 1 | 01/14/2016 11:45 | 115589 |
| Barium | NELAP | 0.25 | | **137** | mg/Kg-dry | 1 | 01/14/2016 11:45 | 115589 |
| Cadmium | NELAP | 0.20 | | **0.38** | mg/Kg-dry | 1 | 01/14/2016 11:45 | 115589 |
| Chromium | NELAP | 0.50 | | **15.4** | mg/Kg-dry | 1 | 01/14/2016 11:45 | 115589 |
| Lead | NELAP | 1.50 | | **51.4** | mg/Kg-dry | 1 | 01/14/2016 11:45 | 115589 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/14/2016 11:45 | 115589 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/14/2016 11:45 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.064** | mg/Kg-dry | 1 | 01/14/2016 10:39 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.202 | | **2.78** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Anthracene | NELAP | 0.202 | | **5.48** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Benzo(a)anthracene | NELAP | 0.202 | | **13.3** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Benzo(a)pyrene | NELAP | 0.202 | | **11.4** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.202 | | **15.4** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.202 | | **4.58** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Chrysene | NELAP | 0.202 | | **11.2** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.202 | | **1.06** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Fluoranthene | NELAP | 0.202 | | **29.3** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Fluorene | NELAP | 0.202 | | **2.28** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Pyrene | NELAP | 0.202 | | **29.2** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| TPH-DRO (C10 - C21) | | 71.3 | | **144** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| TPH-ORO (C21 - C35) | | 71.3 | | **313** | mg/Kg-dry | 5 | 01/14/2016 17:39 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **58.8** | %REC | 5 | 01/14/2016 17:39 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **53.4** | %REC | 5 | 01/14/2016 17:39 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **75.6** | %REC | 5 | 01/14/2016 17:39 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,1-Dichloro-2-propanone | | 43.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-012 **Client Sample ID:** SCI-52A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 2-Butanone | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 2-Hexanone | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 2-Nitropropane | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Acetone | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Acetonitrile | NELAP | 87.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Acrolein | NELAP | 87.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Acrylonitrile | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Bromomethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Chloroethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Chloromethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Cyclohexanone | | 87.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Dichlorodifluoromethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Iodomethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Methacrylonitrile | NELAP | 43.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-012
**Client Sample ID:** SCI-52A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Methylacrylate | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Methylene chloride | NELAP | 4.4 | J | **1.0** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Naphthalene | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| n-Heptane | | 17.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| n-Hexane | | 17.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Nitrobenzene | NELAP | 87.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Propionitrile | NELAP | 43.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| tert-Butyl alcohol | NELAP | 43.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Tetrahydrofuran | NELAP | 43.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| TPH - GRO (C6 - C10) | | 436 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Vinyl acetate | NELAP | 43.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:33 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.8** | %REC | 1 | 01/13/2016 18:33 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.8** | %REC | 1 | 01/13/2016 18:33 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **97.5** | %REC | 1 | 01/13/2016 18:33 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-013
**Client Sample ID:** SCI-52B (10-15)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.0** | % | 1 | 01/14/2016 16:16 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **4.89** | mg/Kg-dry | 1 | 01/14/2016 11:48 | 115589 |
| Barium | NELAP | 0.24 | | **96.4** | mg/Kg-dry | 1 | 01/14/2016 11:48 | 115589 |
| Cadmium | NELAP | 0.19 | | **0.19** | mg/Kg-dry | 1 | 01/14/2016 13:17 | 115589 |
| Chromium | NELAP | 0.48 | | **20.1** | mg/Kg-dry | 1 | 01/14/2016 11:48 | 115589 |
| Lead | NELAP | 1.44 | | **9.14** | mg/Kg-dry | 1 | 01/14/2016 11:48 | 115589 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/14/2016 11:48 | 115589 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/14/2016 11:48 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.028** | mg/Kg-dry | 1 | 01/14/2016 10:42 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Chrysene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Fluorene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| TPH-DRO (C10 - C21) | | 14.9 | J | **8.0** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| TPH-ORO (C21 - C35) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 1:03 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **70.4** | %REC | 1 | 01/14/2016 1:03 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.1** | %REC | 1 | 01/14/2016 1:03 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **81.5** | %REC | 1 | 01/14/2016 1:03 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,1-Dichloro-2-propanone | | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-013 **Client Sample ID:** SCI-52B (10-15)

**Matrix:** SOLID **Collection Date:** 01/12/2016 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 2-Butanone | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 2-Hexanone | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 2-Nitropropane | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Acetone | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Acetonitrile | NELAP | 92.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Acrolein | NELAP | 92.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Acrylonitrile | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Bromomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Chloroethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Chloromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Cyclohexanone | | 92.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Iodomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Methacrylonitrile | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-013
**Client Sample ID:** SCI-52B (10-15)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Methylacrylate | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Naphthalene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| n-Heptane | | 18.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| n-Hexane | | 18.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Nitrobenzene | NELAP | 92.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Propionitrile | NELAP | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| tert-Butyl alcohol | NELAP | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Tetrahydrofuran | NELAP | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| TPH - GRO (C6 - C10) | | 464 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Vinyl acetate | NELAP | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 18:59 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.6** | %REC | 1 | 01/13/2016 18:59 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.4** | %REC | 1 | 01/13/2016 18:59 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **97.5** | %REC | 1 | 01/13/2016 18:59 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-014 **Client Sample ID:** SCI-53A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 12:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **23.6** | % | 1 | 01/14/2016 16:16 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **7.70** | mg/Kg-dry | 1 | 01/14/2016 11:52 | 115589 |
| Barium | NELAP | 0.25 | | **192** | mg/Kg-dry | 1 | 01/14/2016 11:52 | 115589 |
| Cadmium | NELAP | 0.20 | | **0.20** | mg/Kg-dry | 1 | 01/14/2016 11:52 | 115589 |
| Chromium | NELAP | 0.50 | | **18.3** | mg/Kg-dry | 1 | 01/14/2016 11:52 | 115589 |
| Lead | NELAP | 1.50 | | **10.7** | mg/Kg-dry | 1 | 01/14/2016 11:52 | 115589 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/14/2016 11:52 | 115589 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/14/2016 11:52 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.031** | mg/Kg-dry | 1 | 01/14/2016 10:49 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Anthracene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Chrysene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Fluoranthene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Fluorene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Pyrene | NELAP | 0.0443 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| TPH-DRO (C10 - C21) | | 15.6 | J | **8.3** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| TPH-ORO (C21 - C35) | | 15.6 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 11:43 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **67.2** | %REC | 1 | 01/14/2016 11:43 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.7** | %REC | 1 | 01/14/2016 11:43 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **82.6** | %REC | 1 | 01/14/2016 11:43 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,1-Dichloro-2-propanone | | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-014 **Client Sample ID:** SCI-53A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 12:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 1-Chlorobutane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 2-Butanone | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 2-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 2-Hexanone | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 2-Nitropropane | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 4-Chlorotoluene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Acetone | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Acetonitrile | NELAP | 98.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Acrolein | NELAP | 98.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Acrylonitrile | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Allyl chloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Bromobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Bromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Bromodichloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Bromoform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Bromomethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Carbon disulfide | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Carbon tetrachloride | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Chlorobenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Chloroethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Chloroform | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Chloromethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Cyclohexanone | | 98.5 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Dibromochloromethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Dibromomethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Diisopropyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Ethyl ether | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Ethyl methacrylate | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Ethylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Ethyl-tert-butyl ether | | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Hexachlorobutadiene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Hexachloroethane | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Iodomethane | NELAP | 9.8 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Isopropylbenzene | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| m,p-Xylenes | NELAP | 4.9 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Methacrylonitrile | NELAP | 49.2 | | ND | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-014 **Client Sample ID:** SCI-53A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 12:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Methylacrylate | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Methylene chloride | NELAP | 4.9 | J | **1.4** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Naphthalene | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| n-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| n-Heptane | | 19.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| n-Hexane | | 19.7 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Nitrobenzene | NELAP | 98.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| n-Propylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| o-Xylene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Pentachloroethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| p-Isopropyltoluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Propionitrile | NELAP | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| sec-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Styrene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| tert-Amyl methyl ether | | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| tert-Butyl alcohol | NELAP | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| tert-Butylbenzene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Tetrachloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Tetrahydrofuran | NELAP | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Toluene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| TPH - GRO (C6 - C10) | | 492 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Trichloroethene | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Trichlorofluoromethane | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Vinyl acetate | NELAP | 49.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Xylenes, Total | NELAP | 4.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:25 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **97.4** | %REC | 1 | 01/13/2016 19:25 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.7** | %REC | 1 | 01/13/2016 19:25 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **99.4** | %REC | 1 | 01/13/2016 19:25 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-015
**Client Sample ID:** SCI-53B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 12:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.1** | % | 1 | 01/14/2016 16:18 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **9.63** | mg/Kg-dry | 1 | 01/14/2016 12:03 | 115589 |
| Barium | NELAP | 0.25 | | **83.2** | mg/Kg-dry | 1 | 01/14/2016 12:03 | 115589 |
| Cadmium | NELAP | 0.20 | | **0.23** | mg/Kg-dry | 1 | 01/14/2016 12:03 | 115589 |
| Chromium | NELAP | 0.50 | | **60.3** | mg/Kg-dry | 1 | 01/14/2016 12:03 | 115589 |
| Lead | NELAP | 1.50 | | **13.1** | mg/Kg-dry | 1 | 01/14/2016 12:03 | 115589 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 01/14/2016 12:03 | 115589 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 01/14/2016 12:03 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.051** | mg/Kg-dry | 1 | 01/14/2016 10:56 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Chrysene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Fluorene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Pyrene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| TPH-DRO (C10 - C21) | | 15.0 | J | **8.1** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| TPH-ORO (C21 - C35) | | 15.0 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:13 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **70.5** | %REC | 1 | 01/14/2016 12:13 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.9** | %REC | 1 | 01/14/2016 12:13 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **82.4** | %REC | 1 | 01/14/2016 12:13 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,1-Dichloro-2-propanone | | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,2,3-Trichloropropane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,2-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-015 **Client Sample ID:** SCI-53B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 12:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,3-Dichloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 1-Chlorobutane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 2,2-Dichloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 2-Butanone | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 2-Chlorotoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 2-Hexanone | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 2-Nitropropane | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 4-Chlorotoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| 4-Methyl-2-pentanone | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Acetone | NELAP | 45.1 | J | **9.3** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Acetonitrile | NELAP | 90.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Acrolein | NELAP | 90.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Acrylonitrile | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Allyl chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Benzene | NELAP | 0.9 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Bromobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Bromochloromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Bromodichloromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Bromoform | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Bromomethane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Carbon disulfide | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Carbon tetrachloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Chlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Chloroethane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Chloroform | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Chloromethane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Cyclohexanone | | 90.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Dibromochloromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Dibromomethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Dichlorodifluoromethane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Diisopropyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Ethyl ether | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Ethyl methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Ethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Ethyl-tert-butyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Hexachlorobutadiene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Hexachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Iodomethane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Isopropylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| m,p-Xylenes | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Methacrylonitrile | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-015
**Client Sample ID:** SCI-53B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 12:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Methylacrylate | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Methylene chloride | NELAP | 4.5 | J | **1.4** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Naphthalene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| n-Heptane | | 18.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| n-Hexane | | 18.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Nitrobenzene | NELAP | 90.2 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Propionitrile | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| tert-Butyl alcohol | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Tetrahydrofuran | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| TPH - GRO (C6 - C10) | | 451 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Vinyl acetate | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/13/2016 19:51 | 115581 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **99.1** | %REC | 1 | 01/13/2016 19:51 | 115581 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.3** | %REC | 1 | 01/13/2016 19:51 | 115581 |
| Surr: Toluene-d8 | | 86-116 | | **98.0** | %REC | 1 | 01/13/2016 19:51 | 115581 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-016
**Client Sample ID:** SCI-54A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 12:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.9** | % | 1 | 01/14/2016 16:20 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **7.68** | mg/Kg-dry | 1 | 01/14/2016 12:07 | 115589 |
| Barium | NELAP | 0.25 | | **171** | mg/Kg-dry | 1 | 01/14/2016 12:07 | 115589 |
| Cadmium | NELAP | 0.20 | | **0.62** | mg/Kg-dry | 1 | 01/14/2016 12:07 | 115589 |
| Chromium | NELAP | 0.49 | | **17.7** | mg/Kg-dry | 1 | 01/14/2016 12:07 | 115589 |
| Lead | NELAP | 1.47 | | **108** | mg/Kg-dry | 1 | 01/14/2016 12:07 | 115589 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 01/14/2016 12:07 | 115589 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 01/14/2016 12:07 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.088** | mg/Kg-dry | 1 | 01/14/2016 10:59 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.205 | | **0.727** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Anthracene | NELAP | 0.205 | | **1.48** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Benzo(a)anthracene | NELAP | 0.205 | | **3.85** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Benzo(a)pyrene | NELAP | 0.205 | | **3.52** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.205 | | **5.15** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.205 | | **1.49** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Chrysene | NELAP | 0.205 | | **3.54** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.205 | | **0.296** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Fluoranthene | NELAP | 0.205 | | **8.99** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Fluorene | NELAP | 0.205 | | **0.577** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Pyrene | NELAP | 0.205 | | **7.96** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| TPH-DRO (C10 - C21) | | 72.5 | J | **58** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| TPH-ORO (C21 - C35) | | 72.5 | | **118** | mg/Kg-dry | 5 | 01/14/2016 18:09 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **62.1** | %REC | 5 | 01/14/2016 18:09 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **57.4** | %REC | 5 | 01/14/2016 18:09 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **75.3** | %REC | 5 | 01/14/2016 18:09 | 115583 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,1-Dichloro-2-propanone | | 42.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-016
**Client Sample ID:** SCI-54A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 12:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 1-Chlorobutane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 2-Butanone | NELAP | 42.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 2-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 2-Hexanone | NELAP | 42.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 2-Nitropropane | NELAP | 42.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 4-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 42.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Acetone | NELAP | 42.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Acetonitrile | NELAP | 84.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Acrolein | NELAP | 84.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Acrylonitrile | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Allyl chloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Bromobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Bromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Bromodichloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Bromoform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Bromomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Carbon disulfide | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Carbon tetrachloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Chlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Chloroethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Chloroform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Chloromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Cyclohexanone | | 84.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Dibromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Dibromomethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Dichlorodifluoromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Diisopropyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Ethyl ether | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Ethyl methacrylate | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Ethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Ethyl-tert-butyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Hexachlorobutadiene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Hexachloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Iodomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Isopropylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| m,p-Xylenes | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-016 **Client Sample ID:** SCI-54A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 12:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 42.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Methyl Methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Methylacrylate | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Methylene chloride | NELAP | 4.2 | J | **1.0** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Naphthalene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| n-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| n-Heptane | | 17.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| n-Hexane | | 17.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Nitrobenzene | NELAP | 84.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| n-Propylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| o-Xylene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Pentachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| p-Isopropyltoluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Propionitrile | NELAP | 42.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| sec-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Styrene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| tert-Amyl methyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| tert-Butyl alcohol | NELAP | 42.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| tert-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Tetrachloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Tetrahydrofuran | NELAP | 42.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Toluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| TPH - GRO (C6 - C10) | | 425 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Trichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Trichlorofluoromethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Vinyl acetate | NELAP | 42.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Xylenes, Total | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:04 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **98.7** | %REC | 1 | 01/14/2016 13:04 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.9** | %REC | 1 | 01/14/2016 13:04 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **99.5** | %REC | 1 | 01/14/2016 13:04 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-017
**Client Sample ID:** SCI-54B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 13:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.9** | % | 1 | 01/14/2016 16:20 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **5.75** | mg/Kg-dry | 1 | 01/14/2016 12:11 | 115589 |
| Barium | NELAP | 0.24 | | **111** | mg/Kg-dry | 1 | 01/14/2016 12:11 | 115589 |
| Cadmium | NELAP | 0.19 | | **0.29** | mg/Kg-dry | 1 | 01/14/2016 12:11 | 115589 |
| Chromium | NELAP | 0.47 | | **23.4** | mg/Kg-dry | 1 | 01/14/2016 12:11 | 115589 |
| Lead | NELAP | 1.42 | | **12.7** | mg/Kg-dry | 1 | 01/14/2016 12:11 | 115589 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/14/2016 12:11 | 115589 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/14/2016 12:11 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.031** | mg/Kg-dry | 1 | 01/14/2016 11:01 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Chrysene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Fluorene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| TPH-DRO (C10 - C21) | | 14.9 | J | **7.7** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| TPH-ORO (C21 - C35) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 12:43 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **66.0** | %REC | 1 | 01/14/2016 12:43 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **61.5** | %REC | 1 | 01/14/2016 12:43 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **80.9** | %REC | 1 | 01/14/2016 12:43 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,1-Dichloro-2-propanone | | 47.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-017 **Client Sample ID:** SCI-54B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 13:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 2-Butanone | NELAP | 47.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 2-Hexanone | NELAP | 47.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 2-Nitropropane | NELAP | 47.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 47.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Acetone | NELAP | 47.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Acetonitrile | NELAP | 94.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Acrolein | NELAP | 94.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Acrylonitrile | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Bromomethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Chloroethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Chloromethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Cyclohexanone | | 94.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Dichlorodifluoromethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Iodomethane | NELAP | 9.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Methacrylonitrile | NELAP | 47.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-017
**Client Sample ID:** SCI-54B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 13:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Methylacrylate | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Methylene chloride | NELAP | 4.7 | J | **1.1** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Naphthalene | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| n-Heptane | | 19.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| n-Hexane | | 19.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Nitrobenzene | NELAP | 94.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Propionitrile | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| tert-Butyl alcohol | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Tetrahydrofuran | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| TPH - GRO (C6 - C10) | | 475 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Vinyl acetate | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:30 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **95.3** | %REC | 1 | 01/14/2016 13:30 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.1** | %REC | 1 | 01/14/2016 13:30 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **98.5** | %REC | 1 | 01/14/2016 13:30 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-018
**Client Sample ID:** SCI-55A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **15.6** | % | 1 | 01/14/2016 16:21 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **7.08** | mg/Kg-dry | 1 | 01/14/2016 12:15 | 115589 |
| Barium | NELAP | 0.25 | | **122** | mg/Kg-dry | 1 | 01/14/2016 12:15 | 115589 |
| Cadmium | NELAP | 0.20 | J | **0.08** | mg/Kg-dry | 1 | 01/14/2016 12:15 | 115589 |
| Chromium | NELAP | 0.49 | | **13.4** | mg/Kg-dry | 1 | 01/14/2016 12:15 | 115589 |
| Lead | NELAP | 1.47 | | **13.6** | mg/Kg-dry | 1 | 01/14/2016 12:15 | 115589 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 01/14/2016 12:15 | 115589 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 01/14/2016 12:15 | 115589 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.211** | mg/Kg-dry | 1 | 01/14/2016 11:04 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Anthracene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Chrysene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Fluoranthene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Fluorene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Pyrene | NELAP | 0.0399 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| TPH-DRO (C10 - C21) | | 14.1 | J | **7.2** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| TPH-ORO (C21 - C35) | | 14.1 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:12 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **62.4** | %REC | 1 | 01/14/2016 13:12 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **59.9** | %REC | 1 | 01/14/2016 13:12 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **79.6** | %REC | 1 | 01/14/2016 13:12 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,1-Dichloro-2-propanone | | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,2-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-018 **Client Sample ID:** SCI-55A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 1-Chlorobutane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 2-Butanone | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 2-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 2-Hexanone | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 2-Nitropropane | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 4-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Acetone | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Acetonitrile | NELAP | 84.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Acrolein | NELAP | 84.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Acrylonitrile | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Allyl chloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Bromobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Bromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Bromodichloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Bromoform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Bromomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Carbon disulfide | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Carbon tetrachloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Chlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Chloroethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Chloroform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Chloromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Cyclohexanone | | 84.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Dibromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Dibromomethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Dichlorodifluoromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Diisopropyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Ethyl ether | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Ethyl methacrylate | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Ethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Ethyl-tert-butyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Hexachlorobutadiene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Hexachloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Iodomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Isopropylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| m,p-Xylenes | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Methacrylonitrile | NELAP | 42.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-018
**Client Sample ID:** SCI-55A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Methylacrylate | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Methylene chloride | NELAP | 4.2 | J | **1.3** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Naphthalene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| n-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| n-Heptane | | 16.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| n-Hexane | | 16.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Nitrobenzene | NELAP | 84.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| n-Propylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| o-Xylene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Pentachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| p-Isopropyltoluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Propionitrile | NELAP | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| sec-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Styrene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| tert-Amyl methyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| tert-Butyl alcohol | NELAP | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| tert-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Tetrachloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Tetrahydrofuran | NELAP | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Toluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| TPH - GRO (C6 - C10) | | 424 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Trichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Trichlorofluoromethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Vinyl acetate | NELAP | 42.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Xylenes, Total | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 13:56 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.6** | %REC | 1 | 01/14/2016 13:56 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **104.3** | %REC | 1 | 01/14/2016 13:56 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **101.1** | %REC | 1 | 01/14/2016 13:56 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-019
**Client Sample ID:** SCI-55B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 13:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.9** | % | 1 | 01/14/2016 16:22 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **8.06** | mg/Kg-dry | 1 | 01/14/2016 12:29 | 115594 |
| Barium | NELAP | 0.24 | | **173** | mg/Kg-dry | 1 | 01/14/2016 12:29 | 115594 |
| Cadmium | NELAP | 0.19 | | **0.26** | mg/Kg-dry | 1 | 01/14/2016 12:29 | 115594 |
| Chromium | NELAP | 0.48 | | **18.9** | mg/Kg-dry | 1 | 01/14/2016 12:29 | 115594 |
| Lead | NELAP | 1.44 | | **12.3** | mg/Kg-dry | 1 | 01/14/2016 12:29 | 115594 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/14/2016 12:29 | 115594 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/14/2016 12:29 | 115594 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.036** | mg/Kg-dry | 1 | 01/14/2016 11:06 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Benzo(a)anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Benzo(a)pyrene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Chrysene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Fluoranthene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Fluorene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Pyrene | NELAP | 0.0426 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| TPH-DRO (C10 - C21) | | 15.1 | J | **7.8** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| TPH-ORO (C21 - C35) | | 15.1 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 13:42 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **67.5** | %REC | 1 | 01/14/2016 13:42 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **62.8** | %REC | 1 | 01/14/2016 13:42 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **83.1** | %REC | 1 | 01/14/2016 13:42 | 115583 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,1-Dichloro-2-propanone | | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-019 **Client Sample ID:** SCI-55B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 13:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 2-Butanone | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 2-Hexanone | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 2-Nitropropane | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Acetone | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Acetonitrile | NELAP | 92.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Acrolein | NELAP | 92.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Acrylonitrile | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Bromomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Chloroethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Chloromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Cyclohexanone | | 92.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Dichlorodifluoromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Iodomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Methacrylonitrile | NELAP | 46.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-019
**Client Sample ID:** SCI-55B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 13:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Methylacrylate | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Methylene chloride | NELAP | 4.6 | J | **1.4** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Naphthalene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| n-Heptane | | 18.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| n-Hexane | | 18.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Nitrobenzene | NELAP | 92.8 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Propionitrile | NELAP | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| tert-Butyl alcohol | NELAP | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Tetrahydrofuran | NELAP | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| TPH - GRO (C6 - C10) | | 464 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Vinyl acetate | NELAP | 46.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:22 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.6** | %REC | 1 | 01/14/2016 14:22 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.0** | %REC | 1 | 01/14/2016 14:22 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **98.4** | %REC | 1 | 01/14/2016 14:22 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-020 **Client Sample ID:** SCI-57A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **23.9** | % | 1 | 01/14/2016 16:22 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **9.20** | mg/Kg-dry | 1 | 01/14/2016 12:33 | 115594 |
| Barium | NELAP | 0.24 | | **189** | mg/Kg-dry | 1 | 01/14/2016 12:33 | 115594 |
| Cadmium | NELAP | 0.19 | | **0.62** | mg/Kg-dry | 1 | 01/14/2016 12:33 | 115594 |
| Chromium | NELAP | 0.47 | | **21.4** | mg/Kg-dry | 1 | 01/14/2016 12:33 | 115594 |
| Lead | NELAP | 1.42 | | **195** | mg/Kg-dry | 1 | 01/14/2016 12:33 | 115594 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/14/2016 12:33 | 115594 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/14/2016 12:33 | 115594 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.425** | mg/Kg-dry | 1 | 01/14/2016 11:09 | 115590 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.222 | | **0.251** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Anthracene | NELAP | 0.222 | | **0.640** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Benzo(a)anthracene | NELAP | 0.222 | | **2.02** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Benzo(a)pyrene | NELAP | 0.222 | | **1.76** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Benzo(b)fluoranthene | NELAP | 0.222 | | **2.17** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Benzo(k)fluoranthene | NELAP | 0.222 | | **0.880** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Chrysene | NELAP | 0.222 | | **1.83** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Dibenzo(a,h)anthracene | NELAP | 0.222 | | **0.227** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Fluoranthene | NELAP | 0.222 | | **4.23** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Fluorene | NELAP | 0.222 | J | **0.18** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Pyrene | NELAP | 0.222 | | **3.83** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| TPH-DRO (C10 - C21) | | 78.2 | J | **46** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| TPH-ORO (C21 - C35) | | 78.2 | J | **77** | mg/Kg-dry | 5 | 01/14/2016 16:40 | 115583 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **61.5** | %REC | 5 | 01/14/2016 16:40 | 115583 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **59.1** | %REC | 5 | 01/14/2016 16:40 | 115583 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **77.7** | %REC | 5 | 01/14/2016 16:40 | 115583 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,1-Dichloro-2-propanone | | 51.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,1-Dichloroethane | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,1-Dichloroethene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,1-Dichloropropene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 10.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,2,3-Trimethylbenzene | | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,2-Dibromoethane | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-020
**Client Sample ID:** SCI-57A (0-3)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,2-Dichloropropane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,3-Dichloropropane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 1-Chlorobutane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 2,2-Dichloropropane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 2-Butanone | NELAP | 51.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 2-Chlorotoluene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 2-Hexanone | NELAP | 51.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 2-Nitropropane | NELAP | 51.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 4-Chlorotoluene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 51.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Acetone | NELAP | 51.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Acetonitrile | NELAP | 102 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Acrolein | NELAP | 102 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Acrylonitrile | NELAP | 10.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Allyl chloride | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Bromobenzene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Bromochloromethane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Bromodichloromethane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Bromoform | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Bromomethane | NELAP | 10.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Carbon disulfide | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Carbon tetrachloride | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Chlorobenzene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Chloroethane | NELAP | 10.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Chloroform | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Chloromethane | NELAP | 10.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Cyclohexanone | | 102 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Dibromochloromethane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Dibromomethane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Dichlorodifluoromethane | NELAP | 10.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Diisopropyl ether | | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Ethyl ether | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Ethyl methacrylate | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Ethylbenzene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Ethyl-tert-butyl ether | | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Hexachlorobutadiene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Hexachloroethane | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Iodomethane | NELAP | 10.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Isopropylbenzene | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| m,p-Xylenes | NELAP | 5.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-020 **Client Sample ID:** SCI-57A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 51.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Methyl Methacrylate | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Methylacrylate | NELAP | 10.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Methylene chloride | NELAP | 5.1 | J | **1.1** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Naphthalene | NELAP | 10.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| n-Butylbenzene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| n-Heptane | | 20.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| n-Hexane | | 20.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Nitrobenzene | NELAP | 102 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| n-Propylbenzene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| o-Xylene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Pentachloroethane | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| p-Isopropyltoluene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Propionitrile | NELAP | 51.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| sec-Butylbenzene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Styrene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| tert-Amyl methyl ether | | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| tert-Butyl alcohol | NELAP | 51.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| tert-Butylbenzene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Tetrachloroethene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Tetrahydrofuran | NELAP | 51.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Toluene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| TPH - GRO (C6 - C10) | | 510 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Trichloroethene | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Trichlorofluoromethane | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Vinyl acetate | NELAP | 51.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Xylenes, Total | NELAP | 5.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 14:48 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.5** | %REC | 1 | 01/14/2016 14:48 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | S | **119.2** | %REC | 1 | 01/14/2016 14:48 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **106.8** | %REC | 1 | 01/14/2016 14:48 | 115619 |

*Surrogate recovery is outside QC limits due to matrix interference.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-021
**Client Sample ID:** SCI-57B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 14:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.9** | % | 1 | 01/14/2016 16:22 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **5.17** | mg/Kg-dry | 1 | 01/14/2016 12:37 | 115594 |
| Barium | NELAP | 0.24 | | **87.5** | mg/Kg-dry | 1 | 01/14/2016 12:37 | 115594 |
| Cadmium | NELAP | 0.19 | J | **0.16** | mg/Kg-dry | 1 | 01/14/2016 12:37 | 115594 |
| Chromium | NELAP | 0.48 | | **17.0** | mg/Kg-dry | 1 | 01/14/2016 12:37 | 115594 |
| Lead | NELAP | 1.44 | | **9.84** | mg/Kg-dry | 1 | 01/14/2016 12:37 | 115594 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 01/14/2016 12:37 | 115594 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 01/14/2016 12:37 | 115594 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.028** | mg/Kg-dry | 1 | 01/14/2016 11:16 | 115595 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Benzo(a)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Benzo(a)pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Chrysene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Fluoranthene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Fluorene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Pyrene | NELAP | 0.0423 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| TPH-DRO (C10 - C21) | | 14.9 | J | **7.6** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| TPH-ORO (C21 - C35) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:12 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **58.4** | %REC | 1 | 01/14/2016 14:12 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **54.8** | %REC | 1 | 01/14/2016 14:12 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **65.5** | %REC | 1 | 01/14/2016 14:12 | 115592 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,1-Dichloro-2-propanone | | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,2-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-021 **Client Sample ID:** SCI-57B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 14:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 2-Butanone | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 2-Hexanone | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 2-Nitropropane | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Acetone | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Acetonitrile | NELAP | 90.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Acrolein | NELAP | 90.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Acrylonitrile | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Bromomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Chloroethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Chloromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Cyclohexanone | | 90.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Dichlorodifluoromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Iodomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Methacrylonitrile | NELAP | 45.2 | | ND | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-021
**Client Sample ID:** SCI-57B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 14:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Methylacrylate | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Methylene chloride | NELAP | 4.5 | J | **1.2** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Naphthalene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| n-Heptane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| n-Hexane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Nitrobenzene | NELAP | 90.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Propionitrile | NELAP | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| tert-Butyl alcohol | NELAP | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Tetrahydrofuran | NELAP | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| TPH - GRO (C6 - C10) | | 452 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Vinyl acetate | NELAP | 45.2 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 20:27 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **94.5** | %REC | 1 | 01/14/2016 20:27 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.3** | %REC | 1 | 01/14/2016 20:27 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **98.3** | %REC | 1 | 01/14/2016 20:27 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-022 **Client Sample ID:** SCI-58A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 14:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **11.1** | % | 1 | 01/14/2016 16:23 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **13.9** | mg/Kg-dry | 1 | 01/14/2016 12:51 | 115594 |
| Barium | NELAP | 0.23 | | **96.4** | mg/Kg-dry | 1 | 01/14/2016 12:51 | 115594 |
| Cadmium | NELAP | 0.18 | | **2.05** | mg/Kg-dry | 1 | 01/14/2016 12:51 | 115594 |
| Chromium | NELAP | 0.45 | | **17.1** | mg/Kg-dry | 1 | 01/14/2016 12:51 | 115594 |
| Lead | NELAP | 1.36 | | **388** | mg/Kg-dry | 1 | 01/14/2016 12:51 | 115594 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 01/14/2016 12:51 | 115594 |
| Silver | NELAP | 0.45 | | **< 0.45** | mg/Kg-dry | 1 | 01/14/2016 12:51 | 115594 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.159** | mg/Kg-dry | 1 | 01/14/2016 11:18 | 115595 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 2.71 | | **ND** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Anthracene | NELAP | 2.71 | | **2.82** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Benzo(a)anthracene | NELAP | 2.71 | | **8.57** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Benzo(a)pyrene | NELAP | 2.71 | | **6.94** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Benzo(b)fluoranthene | NELAP | 2.71 | | **8.91** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Benzo(k)fluoranthene | NELAP | 2.71 | | **3.50** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Chrysene | NELAP | 2.71 | | **8.01** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 2.71 | | **ND** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Fluoranthene | NELAP | 2.71 | | **19.2** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Fluorene | NELAP | 2.71 | | **ND** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Pyrene | NELAP | 2.71 | | **16.9** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| TPH-DRO (C10 - C21) | | 955 | | **ND** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| TPH-ORO (C21 - C35) | | 955 | J | **540** | mg/Kg-dry | 5 | 01/14/2016 17:10 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **68.3** | %REC | 5 | 01/14/2016 17:10 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **64.9** | %REC | 5 | 01/14/2016 17:10 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **80.0** | %REC | 5 | 01/14/2016 17:10 | 115592 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,1-Dichloro-2-propanone | | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-022 **Client Sample ID:** SCI-58A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 14:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 1-Chlorobutane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 2-Butanone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 2-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 2-Hexanone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 2-Nitropropane | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 4-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Acetone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Acetonitrile | NELAP | 82.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Acrolein | NELAP | 82.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Acrylonitrile | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Allyl chloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Bromobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Bromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Bromodichloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Bromoform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Bromomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Carbon disulfide | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Carbon tetrachloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Chlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Chloroethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Chloroform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Chloromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Cyclohexanone | | 82.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Dibromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Dibromomethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Dichlorodifluoromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Diisopropyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Ethyl ether | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Ethyl methacrylate | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Ethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Ethyl-tert-butyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Hexachlorobutadiene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Hexachloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Iodomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Isopropylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| m,p-Xylenes | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-022 **Client Sample ID:** SCI-58A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 14:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Methyl Methacrylate | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Methylacrylate | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Methylene chloride | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Naphthalene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| n-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| n-Heptane | | 16.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| n-Hexane | | 16.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Nitrobenzene | NELAP | 82.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| n-Propylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| o-Xylene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Pentachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| p-Isopropyltoluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Propionitrile | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| sec-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Styrene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| tert-Amyl methyl ether | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| tert-Butyl alcohol | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| tert-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Tetrachloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Tetrahydrofuran | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Toluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| TPH - GRO (C6 - C10) | | 413 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Trichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Trichlorofluoromethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Vinyl acetate | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Xylenes, Total | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:14 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.1** | %REC | 1 | 01/14/2016 15:14 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **106.8** | %REC | 1 | 01/14/2016 15:14 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **100.3** | %REC | 1 | 01/14/2016 15:14 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-023
**Client Sample ID:** SCI-58B (10-15)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.0** | % | 1 | 01/14/2016 16:23 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **5.25** | mg/Kg-dry | 1 | 01/14/2016 12:55 | 115594 |
| Barium | NELAP | 0.24 | | **116** | mg/Kg-dry | 1 | 01/14/2016 12:55 | 115594 |
| Cadmium | NELAP | 0.19 | J | **0.17** | mg/Kg-dry | 1 | 01/14/2016 12:55 | 115594 |
| Chromium | NELAP | 0.47 | | **22.1** | mg/Kg-dry | 1 | 01/14/2016 12:55 | 115594 |
| Lead | NELAP | 1.42 | | **9.86** | mg/Kg-dry | 1 | 01/14/2016 12:55 | 115594 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/14/2016 12:55 | 115594 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/14/2016 12:55 | 115594 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.028** | mg/Kg-dry | 1 | 01/14/2016 11:26 | 115595 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Anthracene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Benzo(a)anthracene | NELAP | 0.0409 | J | **0.022** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Benzo(a)pyrene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Chrysene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Fluoranthene | NELAP | 0.0409 | J | **0.040** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Fluorene | NELAP | 0.0409 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Pyrene | NELAP | 0.0409 | J | **0.035** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| TPH-DRO (C10 - C21) | | 14.4 | J | **9.3** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| TPH-ORO (C21 - C35) | | 14.4 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 14:41 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **66.1** | %REC | 1 | 01/14/2016 14:41 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **63.0** | %REC | 1 | 01/14/2016 14:41 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **76.5** | %REC | 1 | 01/14/2016 14:41 | 115592 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,1-Dichloro-2-propanone | | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,2-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-023 **Client Sample ID:** SCI-58B (10-15)

**Matrix:** SOLID **Collection Date:** 01/12/2016 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 1-Chlorobutane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 2-Butanone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 2-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 2-Hexanone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 2-Nitropropane | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 4-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Acetone | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Acetonitrile | NELAP | 82.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Acrolein | NELAP | 82.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Acrylonitrile | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Allyl chloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Bromobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Bromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Bromodichloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Bromoform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Bromomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Carbon disulfide | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Carbon tetrachloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Chlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Chloroethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Chloroform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Chloromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Cyclohexanone | | 82.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Dibromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Dibromomethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Dichlorodifluoromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Diisopropyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Ethyl ether | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Ethyl methacrylate | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Ethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Ethyl-tert-butyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Hexachlorobutadiene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Hexachloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Iodomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Isopropylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| m,p-Xylenes | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Methacrylonitrile | NELAP | 41.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-023
**Client Sample ID:** SCI-58B (10-15)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Methylacrylate | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Methylene chloride | NELAP | 4.1 | J | **0.9** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Naphthalene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| n-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| n-Heptane | | 16.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| n-Hexane | | 16.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Nitrobenzene | NELAP | 82.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| n-Propylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| o-Xylene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Pentachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| p-Isopropyltoluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Propionitrile | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| sec-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Styrene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| tert-Amyl methyl ether | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| tert-Butyl alcohol | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| tert-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Tetrachloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Tetrahydrofuran | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Toluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| TPH - GRO (C6 - C10) | | 413 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Trichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Trichlorofluoromethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Vinyl acetate | NELAP | 41.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Xylenes, Total | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 15:40 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.4** | %REC | 1 | 01/14/2016 15:40 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.0** | %REC | 1 | 01/14/2016 15:40 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **98.0** | %REC | 1 | 01/14/2016 15:40 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-024 **Client Sample ID:** SCI-59A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 15:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **12.8** | % | 1 | 01/14/2016 16:23 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **9.15** | mg/Kg-dry | 1 | 01/14/2016 12:58 | 115594 |
| Barium | NELAP | 0.25 | | **220** | mg/Kg-dry | 1 | 01/14/2016 12:58 | 115594 |
| Cadmium | NELAP | 0.20 | | **0.53** | mg/Kg-dry | 1 | 01/14/2016 12:58 | 115594 |
| Chromium | NELAP | 0.49 | | **22.6** | mg/Kg-dry | 1 | 01/14/2016 12:58 | 115594 |
| Lead | NELAP | 1.47 | | **196** | mg/Kg-dry | 1 | 01/14/2016 12:58 | 115594 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 01/14/2016 12:58 | 115594 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 01/14/2016 12:58 | 115594 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.211** | mg/Kg-dry | 1 | 01/14/2016 11:28 | 115595 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 2.52 | | **ND** | mg/Kg-dry | 5 | 01/16/2016 3:37 | 115592 |
| Anthracene | NELAP | 2.52 | | **ND** | mg/Kg-dry | 5 | 01/16/2016 3:37 | 115592 |
| Benzo(a)anthracene | NELAP | 2.52 | J | **1.3** | mg/Kg-dry | 5 | 01/16/2016 3:37 | 115592 |
| Benzo(a)pyrene | NELAP | 2.52 | | **ND** | mg/Kg-dry | 5 | 01/18/2016 19:50 | 115592 |
| Benzo(b)fluoranthene | NELAP | 2.52 | | **ND** | mg/Kg-dry | 5 | 01/18/2016 19:50 | 115592 |
| Benzo(k)fluoranthene | NELAP | 2.52 | | **ND** | mg/Kg-dry | 5 | 01/18/2016 19:50 | 115592 |
| Chrysene | NELAP | 2.52 | | **ND** | mg/Kg-dry | 5 | 01/16/2016 3:37 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 2.52 | | **ND** | mg/Kg-dry | 5 | 01/18/2016 19:50 | 115592 |
| Fluoranthene | NELAP | 2.52 | J | **1.9** | mg/Kg-dry | 5 | 01/16/2016 3:37 | 115592 |
| Fluorene | NELAP | 2.52 | | **ND** | mg/Kg-dry | 5 | 01/16/2016 3:37 | 115592 |
| Pyrene | NELAP | 2.52 | J | **1.9** | mg/Kg-dry | 5 | 01/16/2016 3:37 | 115592 |
| TPH-DRO (C10 - C21) | | 890 | | **ND** | mg/Kg-dry | 5 | 01/16/2016 3:37 | 115592 |
| TPH-ORO (C21 - C35) | | 890 | J | **680** | mg/Kg-dry | 5 | 01/16/2016 3:37 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **61.3** | %REC | 5 | 01/16/2016 3:37 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **58.6** | %REC | 5 | 01/16/2016 3:37 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **72.0** | %REC | 5 | 01/16/2016 3:37 | 115592 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,1-Dichloro-2-propanone | | 41.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-024 **Client Sample ID:** SCI-59A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 15:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 1-Chlorobutane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 2-Butanone | NELAP | 41.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 2-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 2-Hexanone | NELAP | 41.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 2-Nitropropane | NELAP | 41.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 4-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 41.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Acetone | NELAP | 41.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Acetonitrile | NELAP | 82.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Acrolein | NELAP | 82.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Acrylonitrile | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Allyl chloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Bromobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Bromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Bromodichloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Bromoform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Bromomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Carbon disulfide | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Carbon tetrachloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Chlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Chloroethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Chloroform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Chloromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Cyclohexanone | | 82.8 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Dibromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Dibromomethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Dichlorodifluoromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Diisopropyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Ethyl ether | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Ethyl methacrylate | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Ethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Ethyl-tert-butyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Hexachlorobutadiene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Hexachloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Iodomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Isopropylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| m,p-Xylenes | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-024 **Client Sample ID:** SCI-59A (0-3)

**Matrix:** SOLID **Collection Date:** 01/12/2016 15:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 41.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Methyl Methacrylate | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Methylacrylate | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Methylene chloride | NELAP | 4.1 | J | **1.2** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Naphthalene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| n-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| n-Heptane | | 16.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| n-Hexane | | 16.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Nitrobenzene | NELAP | 82.8 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| n-Propylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| o-Xylene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Pentachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| p-Isopropyltoluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Propionitrile | NELAP | 41.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| sec-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Styrene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| tert-Amyl methyl ether | | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| tert-Butyl alcohol | NELAP | 41.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| tert-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Tetrachloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Tetrahydrofuran | NELAP | 41.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Toluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| TPH - GRO (C6 - C10) | | 414 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Trichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Trichlorofluoromethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Vinyl acetate | NELAP | 41.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Xylenes, Total | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:06 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.3** | %REC | 1 | 01/14/2016 16:06 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | S | **124.0** | %REC | 1 | 01/14/2016 16:06 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **107.6** | %REC | 1 | 01/14/2016 16:06 | 115619 |

*Surrogate recovery is outside QC limits due to matrix interference.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-025
**Client Sample ID:** SCI-59B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 15:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.9** | % | 1 | 01/14/2016 16:24 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **8.58** | mg/Kg-dry | 1 | 01/14/2016 13:02 | 115594 |
| Barium | NELAP | 0.24 | | **88.2** | mg/Kg-dry | 1 | 01/14/2016 13:02 | 115594 |
| Cadmium | NELAP | 0.19 | | **0.41** | mg/Kg-dry | 1 | 01/14/2016 13:02 | 115594 |
| Chromium | NELAP | 0.47 | | **63.7** | mg/Kg-dry | 1 | 01/14/2016 13:02 | 115594 |
| Lead | NELAP | 1.42 | | **15.1** | mg/Kg-dry | 1 | 01/14/2016 13:02 | 115594 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 01/14/2016 13:02 | 115594 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 01/14/2016 13:02 | 115594 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.045** | mg/Kg-dry | 1 | 01/14/2016 11:31 | 115595 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Anthracene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Benzo(a)anthracene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Benzo(a)pyrene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Chrysene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Fluoranthene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Fluorene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Pyrene | NELAP | 0.0421 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| TPH-DRO (C10 - C21) | | 14.9 | J | **8.4** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| TPH-ORO (C21 - C35) | | 14.9 | | **ND** | mg/Kg-dry | 1 | 01/14/2016 15:11 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **81.9** | %REC | 1 | 01/14/2016 15:11 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **77.9** | %REC | 1 | 01/14/2016 15:11 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **90.7** | %REC | 1 | 01/14/2016 15:11 | 115592 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,1-Dichloro-2-propanone | | 43.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-025 **Client Sample ID:** SCI-59B (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 15:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 2-Butanone | NELAP | 43.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 2-Hexanone | NELAP | 43.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 2-Nitropropane | NELAP | 43.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 43.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Acetone | NELAP | 43.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Acetonitrile | NELAP | 87.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Acrolein | NELAP | 87.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Acrylonitrile | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Bromomethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Chloroethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Chloromethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Cyclohexanone | | 87.3 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Dichlorodifluoromethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Iodomethane | NELAP | 8.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Methacrylonitrile | NELAP | 43.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-025
**Client Sample ID:** SCI-59B (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 15:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Methylacrylate | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Methylene chloride | NELAP | 4.4 | J | **1.1** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Naphthalene | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| n-Heptane | | 17.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| n-Hexane | | 17.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Nitrobenzene | NELAP | 87.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Propionitrile | NELAP | 43.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| tert-Butyl alcohol | NELAP | 43.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Tetrahydrofuran | NELAP | 43.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| TPH - GRO (C6 - C10) | | 437 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Vinyl acetate | NELAP | 43.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:33 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.7** | %REC | 1 | 01/14/2016 16:33 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **98.9** | %REC | 1 | 01/14/2016 16:33 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **97.6** | %REC | 1 | 01/14/2016 16:33 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-026 **Client Sample ID:** TB-7

**Matrix:** TRIP BLANK **Collection Date:** 01/12/2016 16:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Acetone | NELAP | 25.0 | J | **12** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-026 **Client Sample ID:** TB-7

**Matrix:** TRIP BLANK **Collection Date:** 01/12/2016 16:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-026
**Client Sample ID:** TB-7
**Matrix:** TRIP BLANK
**Collection Date:** 01/12/2016 16:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:08 | 115601 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **99.6** | %REC | 1 | 01/13/2016 13:08 | 115601 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **100.7** | %REC | 1 | 01/13/2016 13:08 | 115601 |
| Surr: Toluene-d8 | | 84.3-114 | | **98.7** | %REC | 1 | 01/13/2016 13:08 | 115601 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-027 **Client Sample ID:** TB-8

**Matrix:** TRIP BLANK **Collection Date:** 01/12/2016 16:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Acetone | NELAP | 25.0 | J | **12** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-027 **Client Sample ID:** TB-8

**Matrix:** TRIP BLANK **Collection Date:** 01/12/2016 16:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-027
**Client Sample ID:** TB-8
**Matrix:** TRIP BLANK
**Collection Date:** 01/12/2016 16:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 13:34 | 115601 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **100.7** | %REC | 1 | 01/13/2016 13:34 | 115601 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **102.5** | %REC | 1 | 01/13/2016 13:34 | 115601 |
| Surr: Toluene-d8 | | 84.3-114 | | **97.4** | %REC | 1 | 01/13/2016 13:34 | 115601 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-028 **Client Sample ID:** GB-5

**Matrix:** AQUEOUS **Collection Date:** 01/12/2016 16:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Acetone | NELAP | 25.0 | J | **12** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-028 **Client Sample ID:** GB-5

**Matrix:** AQUEOUS **Collection Date:** 01/12/2016 16:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-028
**Client Sample ID:** GB-5
**Matrix:** AQUEOUS
**Collection Date:** 01/12/2016 16:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 01/13/2016 14:01 | 115601 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **99.3** | %REC | 1 | 01/13/2016 14:01 | 115601 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **101.6** | %REC | 1 | 01/13/2016 14:01 | 115601 |
| Surr: Toluene-d8 | | 84.3-114 | | **98.4** | %REC | 1 | 01/13/2016 14:01 | 115601 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-029
**Client Sample ID:** SCI-54D (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 13:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.0** | % | 1 | 01/14/2016 16:24 | R213802 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **5.80** | mg/Kg-dry | 1 | 01/14/2016 13:13 | 115594 |
| Barium | NELAP | 0.23 | | **112** | mg/Kg-dry | 1 | 01/14/2016 13:13 | 115594 |
| Cadmium | NELAP | 0.18 | | **0.34** | mg/Kg-dry | 1 | 01/14/2016 13:13 | 115594 |
| Chromium | NELAP | 0.45 | | **24.9** | mg/Kg-dry | 1 | 01/14/2016 13:13 | 115594 |
| Lead | NELAP | 1.36 | | **11.5** | mg/Kg-dry | 1 | 01/14/2016 13:13 | 115594 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 01/14/2016 13:13 | 115594 |
| Silver | NELAP | 0.45 | | **< 0.45** | mg/Kg-dry | 1 | 01/14/2016 13:13 | 115594 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.035** | mg/Kg-dry | 1 | 01/14/2016 11:33 | 115595 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Anthracene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Benzo(a)anthracene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Benzo(a)pyrene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Benzo(b)fluoranthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Benzo(k)fluoranthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Chrysene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Dibenzo(a,h)anthracene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Fluoranthene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Fluorene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Pyrene | NELAP | 0.0424 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| TPH-DRO (C10 - C21) | | 15.0 | J | **7.8** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| TPH-ORO (C21 - C35) | | 15.0 | | **ND** | mg/Kg-dry | 1 | 01/15/2016 20:41 | 115592 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.3** | %REC | 1 | 01/15/2016 20:41 | 115592 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.9** | %REC | 1 | 01/15/2016 20:41 | 115592 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **93.9** | %REC | 1 | 01/15/2016 20:41 | 115592 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,1-Dichloro-2-propanone | | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,2,3-Trichloropropane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

**Lab ID:** 16010608-029 **Client Sample ID:** SCI-54D (15-20)

**Matrix:** SOLID **Collection Date:** 01/12/2016 13:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 2-Butanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 2-Hexanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 2-Nitropropane | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| 4-Methyl-2-pentanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Acetone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Acetonitrile | NELAP | 91.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Acrolein | NELAP | 91.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Acrylonitrile | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Bromomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Chloroethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Chloromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Cyclohexanone | | 91.4 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Dichlorodifluoromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Iodomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Methacrylonitrile | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 16010608
**Client Project:** NGA 2015-0461.21
**Report Date:** 19-Jan-16
**Lab ID:** 16010608-029
**Client Sample ID:** SCI-54D (15-20)
**Matrix:** SOLID
**Collection Date:** 01/12/2016 13:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Methylacrylate | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Methylene chloride | NELAP | 4.6 | J | **1.4** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Naphthalene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| n-Heptane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| n-Hexane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Nitrobenzene | NELAP | 91.4 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Propionitrile | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| tert-Butyl alcohol | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Tetrahydrofuran | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| TPH - GRO (C6 - C10) | | 457 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Vinyl acetate | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 01/14/2016 16:59 | 115619 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.9** | %REC | 1 | 01/14/2016 16:59 | 115619 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.0** | %REC | 1 | 01/14/2016 16:59 | 115619 |
| Surr: Toluene-d8 | | 86-116 | | **99.6** | %REC | 1 | 01/14/2016 16:59 | 115619 |

# Quality Control Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608
**Report Date:** 19-Jan-16

## EPA SW846 3550C, 5035A, ASTM D2974

**Batch** R213802 **SampType:** LCS Units **%**
SampID: LCS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 01/14/2016 |

**Batch** R213802 **SampType:** LCSQC Units **%**
SampID: LCSQC

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 01/14/2016 |

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115589 **SampType:** MBLK Units **mg/Kg-dry**
SampID: MBLK-115589

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Barium | 0.25 | | **< 0.25** | 0.2500 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Silver | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/14/2016 |

**Batch** 115589 **SampType:** LCS Units **mg/Kg-dry**
SampID: LCS-115589

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **47.0** | 50.00 | 0 | 94.1 | 85 | 115 | 01/14/2016 |
| Barium | 0.25 | | **193** | 200.0 | 0 | 96.4 | 85 | 115 | 01/14/2016 |
| Cadmium | 0.20 | | **4.88** | 5.000 | 0 | 97.6 | 85 | 115 | 01/14/2016 |
| Chromium | 0.50 | | **20.4** | 20.00 | 0 | 102.0 | 85 | 115 | 01/14/2016 |
| Lead | 1.50 | | **51.0** | 50.00 | 0 | 102.1 | 85 | 115 | 01/14/2016 |
| Selenium | 4.00 | | **48.4** | 50.00 | 0 | 96.8 | 85 | 115 | 01/14/2016 |
| Silver | 0.50 | | **4.69** | 5.000 | 0 | 93.8 | 85 | 115 | 01/14/2016 |

**Batch** 115589 **SampType:** MS Units **mg/Kg-dry**
SampID: 16010606-020AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.50 | | **59.0** | 50.00 | 9.190 | 99.6 | 75 | 125 | 01/14/2016 |

**Batch** 115589 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**
SampID: 16010606-020AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.50 | | **58.1** | 50.00 | 9.190 | 97.9 | 59.01 | 1.49 | 01/14/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608
**Report Date:** 19-Jan-16

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115589 **SampType:** MS Units **mg/Kg-dry**
SampID: 16010608-004AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.40 | | **54.5** | 48.08 | 10.60 | 91.2 | 75 | 125 | 01/14/2016 |
| Barium | 0.24 | | **380** | 192.3 | 185.1 | 101.4 | 75 | 125 | 01/14/2016 |
| Cadmium | 0.19 | | **4.67** | 4.808 | 0.1635 | 93.8 | 75 | 125 | 01/14/2016 |
| Chromium | 0.48 | | **39.5** | 19.23 | 19.60 | 103.4 | 75 | 125 | 01/14/2016 |
| Lead | 1.44 | | **61.6** | 48.08 | 14.04 | 98.9 | 75 | 125 | 01/14/2016 |
| Selenium | 3.85 | | **42.4** | 48.08 | 0 | 88.2 | 75 | 125 | 01/14/2016 |
| Silver | 0.48 | | **4.06** | 4.808 | 0 | 84.4 | 75 | 125 | 01/14/2016 |

**Batch** 115589 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**
SampID: 16010608-004AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.40 | | **54.9** | 48.08 | 10.60 | 92.1 | 54.46 | 0.77 | 01/14/2016 |
| Barium | 0.24 | | **374** | 192.3 | 185.1 | 98.0 | 380.1 | 1.71 | 01/14/2016 |
| Cadmium | 0.19 | | **4.69** | 4.808 | 0.1635 | 94.2 | 4.673 | 0.41 | 01/14/2016 |
| Chromium | 0.48 | | **39.8** | 19.23 | 19.60 | 105.0 | 39.49 | 0.75 | 01/14/2016 |
| Lead | 1.44 | | **62.0** | 48.08 | 14.04 | 99.8 | 61.58 | 0.70 | 01/14/2016 |
| Selenium | 3.85 | | **43.0** | 48.08 | 0 | 89.3 | 42.40 | 1.28 | 01/14/2016 |
| Silver | 0.48 | | **4.12** | 4.808 | 0 | 85.6 | 4.058 | 1.41 | 01/14/2016 |

**Batch** 115594 **SampType:** MBLK Units **mg/Kg-dry**
SampID: MBLK-115594

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Barium | 0.25 | | **< 0.25** | 0.2500 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 01/14/2016 |
| Silver | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 01/14/2016 |

**Batch** 115594 **SampType:** LCS Units **mg/Kg-dry**
SampID: LCS-115594

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **46.6** | 50.00 | 0 | 93.1 | 85 | 115 | 01/14/2016 |
| Barium | 0.25 | | **191** | 200.0 | 0 | 95.6 | 85 | 115 | 01/14/2016 |
| Cadmium | 0.20 | | **4.72** | 5.000 | 0 | 94.4 | 85 | 115 | 01/14/2016 |
| Chromium | 0.50 | | **20.1** | 20.00 | 0 | 100.7 | 85 | 115 | 01/14/2016 |
| Lead | 1.50 | | **50.6** | 50.00 | 0 | 101.3 | 85 | 115 | 01/14/2016 |
| Selenium | 4.00 | | **46.6** | 50.00 | 0 | 93.3 | 85 | 115 | 01/14/2016 |
| Silver | 0.50 | | **4.60** | 5.000 | 0 | 92.0 | 85 | 115 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3050B, 6010B, METALS BY ICP

**Batch 115594** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010608-025AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.36 | | **50.6** | 47.17 | 8.575 | 89.1 | 75 | 125 | 01/14/2016 |
| Barium | 0.24 | | **278** | 188.7 | 88.21 | 100.4 | 75 | 125 | 01/14/2016 |
| Cadmium | 0.19 | | **4.89** | 4.717 | 0.4057 | 95.0 | 75 | 125 | 01/14/2016 |
| Chromium | 0.47 | | **84.4** | 18.87 | 63.65 | 109.8 | 75 | 125 | 01/14/2016 |
| Lead | 1.42 | | **61.8** | 47.17 | 15.08 | 99.0 | 75 | 125 | 01/14/2016 |
| Selenium | 3.77 | | **41.0** | 47.17 | 0 | 86.9 | 75 | 125 | 01/14/2016 |
| Silver | 0.47 | | **4.15** | 4.717 | 0 | 88.0 | 75 | 125 | 01/14/2016 |

**Batch 115594** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **20**

SampID: 16010608-025AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.36 | | **51.4** | 47.17 | 8.575 | 90.8 | 50.60 | 1.61 | 01/14/2016 |
| Barium | 0.24 | | **290** | 188.7 | 88.21 | 106.9 | 277.6 | 4.32 | 01/14/2016 |
| Cadmium | 0.19 | | **4.91** | 4.717 | 0.4057 | 95.4 | 4.887 | 0.39 | 01/14/2016 |
| Chromium | 0.47 | | **84.1** | 18.87 | 63.65 | 108.5 | 84.37 | 0.30 | 01/14/2016 |
| Lead | 1.42 | | **62.3** | 47.17 | 15.08 | 100.2 | 61.79 | 0.88 | 01/14/2016 |
| Selenium | 3.77 | | **41.9** | 47.17 | 0 | 88.9 | 41.00 | 2.21 | 01/14/2016 |
| Silver | 0.47 | | **4.16** | 4.717 | 0 | 88.2 | 4.151 | 0.23 | 01/14/2016 |

## SW-846 7471B

**Batch 115590** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115590

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **< 0.010** | 0.01000 | 0 | 0 | -100 | 100 | 01/14/2016 |

**Batch 115590** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115590

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.253** | 0.2500 | 0 | 101.2 | 85 | 115 | 01/14/2016 |

**Batch 115590** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010608-003AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.330** | 0.2887 | 0.02906 | 104.1 | 75 | 125 | 01/14/2016 |

**Batch 115590** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**

SampID: 16010608-003AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.322** | 0.2887 | 0.02906 | 101.6 | 0.3297 | 2.28 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 7471B

**Batch 115590** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010608-013AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.340** | 0.2975 | 0.02781 | 104.8 | 75 | 125 | 01/14/2016 |

**Batch 115590** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**

SampID: 16010608-013AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.334** | 0.2975 | 0.02781 | 102.9 | 0.3397 | 1.75 | 01/14/2016 |

**Batch 115595** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115595

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **< 0.010** | 0.01000 | 0 | 0 | -100 | 100 | 01/14/2016 |

**Batch 115595** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115595

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.251** | 0.2500 | 0 | 100.5 | 85 | 115 | 01/14/2016 |

**Batch 115595** **SampType: MS** Units **mg/Kg-dry**

SampID: 16010624-001AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.188 | | **4.80** | 4.706 | 0.3956 | 93.6 | 75 | 125 | 01/14/2016 |

**Batch 115595** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**

SampID: 16010624-001AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.188 | | **5.09** | 4.706 | 0.3956 | 99.7 | 4.800 | 5.84 | 01/14/2016 |

## SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD

**Batch 115591** **SampType: MBLK** Units **µg/Kg**

SampID: MBLK-115591

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 37.5 | | **ND** | | | | | | 01/14/2016 |
| Aroclor 1221 | 37.5 | | **ND** | | | | | | 01/14/2016 |
| Aroclor 1232 | 37.5 | | **ND** | | | | | | 01/14/2016 |
| Aroclor 1242 | 37.5 | | **ND** | | | | | | 01/14/2016 |
| Aroclor 1248 | 37.5 | | **ND** | | | | | | 01/14/2016 |
| Aroclor 1254 | 37.5 | | **ND** | | | | | | 01/14/2016 |
| Aroclor 1260 | 37.5 | | **ND** | | | | | | 01/14/2016 |
| Surr: Decachlorobiphenyl | | | **7.8** | 8.300 | | 94.2 | 76.4 | 155 | 01/14/2016 |
| Surr: Tetrachloro-meta-xylene | | | **6.1** | 8.300 | | 73.8 | 44.4 | 122 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD

**Batch 115591** **SampType: LCS** Units **µg/Kg**

SampID: LCSPCB-115591

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 37.5 | | **141** | 166.7 | 0 | 84.4 | 63.5 | 130 | 01/14/2016 |
| Aroclor 1260 | 37.5 | | **145** | 166.7 | 0 | 86.9 | 76 | 138 | 01/14/2016 |
| Surr: Decachlorobiphenyl | | | **7.1** | 8.300 | | 85.8 | 76.4 | 155 | 01/14/2016 |
| Surr: Tetrachloro-meta-xylene | | | **6.5** | 8.300 | | 78.1 | 44.4 | 122 | 01/14/2016 |

**Batch 115591** **SampType: MS** Units **µg/Kg-dry**

SampID: 16010608-005AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 37.4 | | **142** | 166.2 | 0 | 85.2 | 35.8 | 143 | 01/14/2016 |
| Aroclor 1260 | 37.4 | | **147** | 166.2 | 0 | 88.6 | 22.3 | 152 | 01/14/2016 |
| Surr: Decachlorobiphenyl | | | **5.9** | 8.275 | | 70.9 | 5 | 156 | 01/14/2016 |
| Surr: Tetrachloro-meta-xylene | | | **4.5** | 8.275 | | 54.6 | 7.35 | 123 | 01/14/2016 |

**Batch 115591** **SampType: MSD** Units **µg/Kg-dry** RPD Limit **40**

SampID: 16010608-005AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 37.4 | | **133** | 166.4 | 0 | 80.0 | 141.6 | 6.22 | 01/14/2016 |
| Aroclor 1260 | 37.4 | | **147** | 166.4 | 0 | 88.5 | 147.3 | 0.03 | 01/14/2016 |
| Surr: Decachlorobiphenyl | | | **5.8** | 8.286 | | 70.4 | | | 01/14/2016 |
| Surr: Tetrachloro-meta-xylene | | | **4.7** | 8.286 | | 56.3 | | | 01/14/2016 |

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115583** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115583

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Anthracene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Benzo(a)anthracene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Benzo(a)pyrene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Chrysene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Fluoranthene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Fluorene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| Pyrene | 0.0340 | | **ND** | | | | | | 01/13/2016 |
| TPH-DRO (C10 - C21) | 12.0 | J | **6.6** | | | | | | 01/13/2016 |
| TPH-ORO (C21 - C35) | 12.0 | | **ND** | | | | | | 01/13/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.687** | 0.8350 | | 82.2 | 42.6 | 97.2 | 01/13/2016 |
| Surr: Nitrobenzene-d5 | | | **0.654** | 0.8350 | | 78.4 | 16.7 | 118 | 01/13/2016 |
| Surr: p-Terphenyl-d14 | | | **0.773** | 0.8350 | | 92.5 | 50.1 | 111 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115583 **SampType:** LCS Units **mg/Kg**

SampID: LCS-115583

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **1.26** | 1.670 | 0 | 75.7 | 56.4 | 104 | 01/13/2016 |
| Anthracene | 0.0340 | | **1.15** | 1.670 | 0 | 69.1 | 55.9 | 101 | 01/13/2016 |
| Benzo(a)anthracene | 0.0340 | | **1.20** | 1.670 | 0 | 71.8 | 51.7 | 107 | 01/13/2016 |
| Benzo(a)pyrene | 0.0340 | | **1.24** | 1.670 | 0 | 74.5 | 57.2 | 114 | 01/13/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **1.28** | 1.670 | 0 | 76.7 | 45.3 | 116 | 01/13/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **1.21** | 1.670 | 0 | 72.4 | 58.2 | 114 | 01/13/2016 |
| Chrysene | 0.0340 | | **1.23** | 1.670 | 0 | 73.6 | 58.9 | 102 | 01/13/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **1.33** | 1.670 | 0 | 79.5 | 48.9 | 123 | 01/13/2016 |
| Fluoranthene | 0.0340 | | **1.22** | 1.670 | 0 | 72.8 | 54.9 | 108 | 01/13/2016 |
| Fluorene | 0.0340 | | **1.19** | 1.670 | 0 | 71.2 | 58 | 101 | 01/13/2016 |
| Pyrene | 0.0340 | | **1.26** | 1.670 | 0 | 75.4 | 53.4 | 107 | 01/13/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.596** | 0.8350 | | 71.3 | 42.6 | 97.2 | 01/13/2016 |
| Surr: Nitrobenzene-d5 | | | **0.779** | 0.8350 | | 93.3 | 16.7 | 118 | 01/13/2016 |
| Surr: p-Terphenyl-d14 | | | **0.674** | 0.8350 | | 80.8 | 50.1 | 111 | 01/13/2016 |

**Batch** 115583 **SampType:** LCSG Units **mg/Kg**

SampID: LCSDRO-115583

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 12.0 | | **29.4** | 33.40 | 0 | 88.1 | 53.7 | 103 | 01/13/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.624** | 0.8350 | | 74.8 | 42.6 | 97.2 | 01/13/2016 |
| Surr: Nitrobenzene-d5 | | | **0.604** | 0.8350 | | 72.4 | 16.7 | 118 | 01/13/2016 |
| Surr: p-Terphenyl-d14 | | | **0.724** | 0.8350 | | 86.7 | 50.1 | 111 | 01/13/2016 |

**Batch** 115583 **SampType:** MS Units **mg/Kg-dry**

SampID: 16010608-011AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 14.6 | | **33.5** | 40.52 | 7.813 | 63.3 | 34.5 | 160 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.561** | 1.013 | | 55.4 | 12 | 133 | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.590** | 1.013 | | 58.2 | 30.9 | 115 | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.835** | 1.013 | | 82.4 | 31.5 | 137 | 01/14/2016 |

**Batch** 115583 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **30**

SampID: 16010608-011AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 14.5 | | **32.3** | 40.39 | 7.813 | 60.7 | 33.45 | 3.40 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.504** | 1.010 | | 49.9 | | | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.537** | 1.010 | | 53.2 | | | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.842** | 1.010 | | 83.4 | | | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115592 **SampType:** MBLK Units **mg/Kg**

SampID: MBLK-115592

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Anthracene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Benzo(a)anthracene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Benzo(a)pyrene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Chrysene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Fluoranthene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Fluorene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| Pyrene | 0.0340 | | **ND** | | | | | | 01/14/2016 |
| TPH-DRO (C10 - C21) | 12.0 | J | **6.4** | | | | | | 01/14/2016 |
| TPH-ORO (C21 - C35) | 12.0 | | **ND** | | | | | | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.593** | 0.8350 | | 71.0 | 42.6 | 97.2 | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.542** | 0.8350 | | 64.9 | 16.7 | 118 | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.660** | 0.8350 | | 79.1 | 50.1 | 111 | 01/14/2016 |

**Batch** 115592 **SampType:** LCS Units **mg/Kg**

SampID: LCS-115592

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **1.20** | 1.670 | 0 | 71.7 | 56.4 | 104 | 01/14/2016 |
| Anthracene | 0.0340 | | **1.12** | 1.670 | 0 | 66.9 | 55.9 | 101 | 01/14/2016 |
| Benzo(a)anthracene | 0.0340 | | **1.16** | 1.670 | 0 | 69.6 | 51.7 | 107 | 01/14/2016 |
| Benzo(a)pyrene | 0.0340 | | **1.22** | 1.670 | 0 | 73.2 | 57.2 | 114 | 01/14/2016 |
| Benzo(b)fluoranthene | 0.0340 | | **1.20** | 1.670 | 0 | 71.8 | 45.3 | 116 | 01/14/2016 |
| Benzo(k)fluoranthene | 0.0340 | | **1.25** | 1.670 | 0 | 75.1 | 58.2 | 114 | 01/14/2016 |
| Chrysene | 0.0340 | | **1.22** | 1.670 | 0 | 72.9 | 58.9 | 102 | 01/14/2016 |
| Dibenzo(a,h)anthracene | 0.0340 | | **1.30** | 1.670 | 0 | 77.9 | 48.9 | 123 | 01/14/2016 |
| Fluoranthene | 0.0340 | | **1.21** | 1.670 | 0 | 72.6 | 54.9 | 108 | 01/14/2016 |
| Fluorene | 0.0340 | | **1.15** | 1.670 | 0 | 69.0 | 58 | 101 | 01/14/2016 |
| Pyrene | 0.0340 | | **1.24** | 1.670 | 0 | 74.2 | 53.4 | 107 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.548** | 0.8350 | | 65.7 | 42.6 | 97.2 | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.744** | 0.8350 | | 89.2 | 16.7 | 118 | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.631** | 0.8350 | | 75.6 | 50.1 | 111 | 01/14/2016 |

**Batch** 115592 **SampType:** LCSG Units **mg/Kg**

SampID: LCSDRO-115592

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 12.0 | | **28.4** | 33.40 | 0 | 85.0 | 53.7 | 103 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.591** | 0.8350 | | 70.8 | 42.6 | 97.2 | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.547** | 0.8350 | | 65.5 | 16.7 | 118 | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.677** | 0.8350 | | 81.1 | 50.1 | 111 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115592** **SampType:** **MS** Units **mg/Kg-dry**

SampID: 16010608-025AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 15.0 | | **33.4** | 41.64 | 8.425 | 59.9 | 34.5 | 160 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.386** | 1.041 | | 37.0 | 12 | 133 | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.579** | 1.041 | | 55.7 | 30.9 | 115 | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.837** | 1.041 | | 80.4 | 31.5 | 137 | 01/14/2016 |

**Batch** **115592** **SampType:** **MSD** Units **mg/Kg-dry** RPD Limit **30**

SampID: 16010608-025AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 14.9 | | **35.4** | 41.55 | 8.425 | 65.0 | 33.36 | 6.03 | 01/14/2016 |
| Surr: 2-Fluorobiphenyl | | | **0.591** | 1.039 | | 56.9 | | | 01/14/2016 |
| Surr: Nitrobenzene-d5 | | | **0.644** | 1.039 | | 62.0 | | | 01/14/2016 |
| Surr: p-Terphenyl-d14 | | | **0.886** | 1.039 | | 85.2 | | | 01/14/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608
**Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115601** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Butanone | 25.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Hexanone | 25.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **ND** | | | | | | 01/13/2016 |
| Acetone | 25.0 | | **ND** | | | | | | 01/13/2016 |
| Acetonitrile | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/13/2016 |
| Acrylonitrile | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Benzene | 2.0 | | **ND** | | | | | | 01/13/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115601** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Chloromethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Chloroprene | 20.0 | | **ND** | | | | | | 01/13/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Cyclohexanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Diisopropyl ether | 2.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl acetate | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **ND** | | | | | | 01/13/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Hexachloroethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Iodomethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Methacrylonitrile | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/13/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/13/2016 |
| n-Butyl acetate | 25.0 | | **ND** | | | | | | 01/13/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/13/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/13/2016 |
| Nitrobenzene | 50.0 | | **ND** | | | | | | 01/13/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Pentachloroethane | 20.0 | | **ND** | | | | | | 01/13/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/13/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| tert-Amyl methyl ether | 2.0 | | **ND** | | | | | | 01/13/2016 |
| tert-Butyl alcohol | 25.0 | | **ND** | | | | | | 01/13/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Tetrahydrofuran | 20.0 | | **ND** | | | | | | 01/13/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115601** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Vinyl acetate | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/13/2016 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 01/13/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.0** | 50.00 | | 96.0 | 74.7 | 129 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.7** | 50.00 | | 99.4 | 86 | 119 | 01/13/2016 |
| Surr: Toluene-d8 | | | **48.4** | 50.00 | | 96.7 | 84.3 | 114 | 01/13/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608
**Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115601** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **52.8** | 50.00 | 0 | 105.7 | 51.08 | 3.39 | 01/13/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 47.82 | 3.88 | 01/13/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **47.2** | 50.00 | 0 | 94.5 | 47.08 | 0.34 | 01/13/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **50.5** | 50.00 | 0 | 101.0 | 49.29 | 2.39 | 01/13/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **49.4** | 50.00 | 0 | 98.9 | 48.12 | 2.69 | 01/13/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **102** | 125.0 | 0 | 81.7 | 104.7 | 2.42 | 01/13/2016 |
| 1,1-Dichloroethane | 5.0 | | **45.9** | 50.00 | 0 | 91.7 | 45.25 | 1.34 | 01/13/2016 |
| 1,1-Dichloroethene | 5.0 | | **47.7** | 50.00 | 0 | 95.3 | 45.98 | 3.61 | 01/13/2016 |
| 1,1-Dichloropropene | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 49.74 | 1.26 | 01/13/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 49.46 | 0.16 | 01/13/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **45.4** | 50.00 | 0 | 90.8 | 44.30 | 2.43 | 01/13/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 51.00 | 0.80 | 01/13/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 49.75 | 1.20 | 01/13/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 52.21 | 0.40 | 01/13/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **44.1** | 50.00 | 0 | 88.1 | 44.57 | 1.15 | 01/13/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 48.52 | 1.76 | 01/13/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 50.87 | 1.81 | 01/13/2016 |
| 1,2-Dichloroethane | 5.0 | | **46.2** | 50.00 | 0 | 92.5 | 45.40 | 1.85 | 01/13/2016 |
| 1,2-Dichloropropane | 5.0 | | **49.1** | 50.00 | 0 | 98.3 | 48.13 | 2.06 | 01/13/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 52.25 | 0.74 | 01/13/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 50.02 | 3.59 | 01/13/2016 |
| 1,3-Dichloropropane | 5.0 | | **48.2** | 50.00 | 0 | 96.3 | 46.22 | 4.11 | 01/13/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 50.18 | 0.66 | 01/13/2016 |
| 1-Chlorobutane | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 48.02 | 3.54 | 01/13/2016 |
| 2,2-Dichloropropane | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 49.54 | 1.14 | 01/13/2016 |
| 2-Butanone | 25.0 | | **110** | 125.0 | 0 | 87.9 | 117.6 | 6.73 | 01/13/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **47.7** | 50.00 | 0 | 95.4 | 47.37 | 0.72 | 01/13/2016 |
| 2-Chlorotoluene | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 50.02 | 2.68 | 01/13/2016 |
| 2-Hexanone | 25.0 | | **108** | 125.0 | 0 | 86.5 | 111.8 | 3.29 | 01/13/2016 |
| 2-Nitropropane | 50.0 | | **489** | 500.0 | 0 | 97.7 | 504.7 | 3.25 | 01/13/2016 |
| 4-Chlorotoluene | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 50.40 | 1.36 | 01/13/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **109** | 125.0 | 0 | 87.4 | 109.9 | 0.62 | 01/13/2016 |
| Acetone | 25.0 | | **117** | 125.0 | 0 | 93.9 | 130.5 | 10.59 | 01/13/2016 |
| Acetonitrile | 50.0 | | **441** | 500.0 | 0 | 88.2 | 463.0 | 4.82 | 01/13/2016 |
| Acrolein | 100 | | **420** | 500.0 | 0 | 84.0 | 438.2 | 4.23 | 01/13/2016 |
| Acrylonitrile | 5.0 | | **42.4** | 50.00 | 0 | 84.7 | 44.16 | 4.16 | 01/13/2016 |
| Allyl chloride | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 46.92 | 4.13 | 01/13/2016 |
| Benzene | 2.0 | | **50.2** | 50.00 | 0 | 100.3 | 49.57 | 1.16 | 01/13/2016 |
| Bromobenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 48.36 | 1.40 | 01/13/2016 |
| Bromochloromethane | 5.0 | | **46.7** | 50.00 | 0 | 93.4 | 45.94 | 1.62 | 01/13/2016 |
| Bromodichloromethane | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 51.14 | 2.57 | 01/13/2016 |
| Bromoform | 5.0 | | **52.1** | 50.00 | 0 | 104.1 | 51.12 | 1.82 | 01/13/2016 |
| Bromomethane | 10.0 | | **42.2** | 50.00 | 0 | 84.4 | 41.39 | 1.94 | 01/13/2016 |
| Carbon disulfide | 5.0 | | **47.2** | 50.00 | 0 | 94.4 | 46.34 | 1.84 | 01/13/2016 |
| Carbon tetrachloride | 5.0 | | **53.1** | 50.00 | 0 | 106.3 | 52.33 | 1.54 | 01/13/2016 |
| Chlorobenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.1 | 48.76 | 3.59 | 01/13/2016 |
| Chloroethane | 10.0 | | **42.4** | 50.00 | 0 | 84.7 | 41.68 | 1.62 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115601** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **46.1** | 50.00 | 0 | 92.2 | 45.82 | 0.65 | 01/13/2016 |
| Chloromethane | 10.0 | | **39.6** | 50.00 | 0 | 79.2 | 40.52 | 2.30 | 01/13/2016 |
| Chloroprene | 20.0 | | **47.3** | 50.00 | 0 | 94.7 | 46.84 | 1.06 | 01/13/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 47.94 | 0.93 | 01/13/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 52.37 | 1.99 | 01/13/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 48.46 | 2.80 | 01/13/2016 |
| Cyclohexanone | 50.0 | | **360** | 500.0 | 0 | 72.1 | 432.4 | 18.14 | 01/13/2016 |
| Dibromochloromethane | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 51.95 | 2.58 | 01/13/2016 |
| Dibromomethane | 5.0 | | **48.8** | 50.00 | 0 | 97.7 | 48.60 | 0.49 | 01/13/2016 |
| Dichlorodifluoromethane | 10.0 | | **38.9** | 50.00 | 0 | 77.7 | 37.39 | 3.88 | 01/13/2016 |
| Diisopropyl ether | 2.0 | | **49.2** | 50.00 | 0 | 98.4 | 48.69 | 1.04 | 01/13/2016 |
| Ethyl acetate | 10.0 | | **42.4** | 50.00 | 0 | 84.7 | 43.87 | 3.53 | 01/13/2016 |
| Ethyl ether | 5.0 | | **45.7** | 50.00 | 0 | 91.4 | 43.33 | 5.30 | 01/13/2016 |
| Ethyl methacrylate | 5.0 | | **49.3** | 50.00 | 0 | 98.7 | 47.54 | 3.70 | 01/13/2016 |
| Ethylbenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 48.44 | 3.61 | 01/13/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **47.4** | 50.00 | 0 | 94.8 | 46.73 | 1.38 | 01/13/2016 |
| Hexachlorobutadiene | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 49.62 | 5.34 | 01/13/2016 |
| Hexachloroethane | 10.0 | | **52.9** | 50.00 | 0 | 105.7 | 51.40 | 2.80 | 01/13/2016 |
| Iodomethane | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 51.22 | 1.03 | 01/13/2016 |
| Isopropylbenzene | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 52.21 | 1.67 | 01/13/2016 |
| m,p-Xylenes | 5.0 | | **100** | 100.0 | 0 | 100.3 | 100.5 | 0.21 | 01/13/2016 |
| Methacrylonitrile | 10.0 | | **45.0** | 50.00 | 0 | 90.1 | 44.80 | 0.51 | 01/13/2016 |
| Methyl Methacrylate | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 47.67 | 3.16 | 01/13/2016 |
| Methyl tert-butyl ether | 2.0 | | **47.5** | 50.00 | 0 | 94.9 | 46.76 | 1.51 | 01/13/2016 |
| Methylacrylate | 10.0 | | **45.7** | 50.00 | 0 | 91.4 | 46.45 | 1.65 | 01/13/2016 |
| Methylene chloride | 5.0 | | **44.7** | 50.00 | 0 | 89.5 | 44.88 | 0.31 | 01/13/2016 |
| Naphthalene | 10.0 | | **51.6** | 50.00 | 0 | 103.3 | 51.92 | 0.52 | 01/13/2016 |
| n-Butyl acetate | 25.0 | | **44.8** | 50.00 | 0 | 89.6 | 45.04 | 0.58 | 01/13/2016 |
| n-Butylbenzene | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 51.52 | 2.28 | 01/13/2016 |
| n-Heptane | 20.0 | | **50.1** | 50.00 | 0 | 100.2 | 49.17 | 1.91 | 01/13/2016 |
| n-Hexane | 20.0 | | **47.3** | 50.00 | 0 | 94.6 | 46.54 | 1.64 | 01/13/2016 |
| Nitrobenzene | 50.0 | | **374** | 500.0 | 0 | 74.9 | 403.6 | 7.49 | 01/13/2016 |
| n-Propylbenzene | 5.0 | | **52.1** | 50.00 | 0 | 104.1 | 49.82 | 4.40 | 01/13/2016 |
| o-Xylene | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 49.80 | 3.24 | 01/13/2016 |
| Pentachloroethane | 20.0 | | **53.4** | 50.00 | 0 | 106.8 | 53.13 | 0.54 | 01/13/2016 |
| p-Isopropyltoluene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 52.03 | 3.27 | 01/13/2016 |
| Propionitrile | 50.0 | | **422** | 500.0 | 0 | 84.5 | 447.7 | 5.84 | 01/13/2016 |
| sec-Butylbenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 51.64 | 2.99 | 01/13/2016 |
| Styrene | 5.0 | | **53.8** | 50.00 | 0 | 107.7 | 52.43 | 2.67 | 01/13/2016 |
| tert-Amyl methyl ether | 2.0 | | **51.3** | 50.00 | 0 | 102.5 | 50.70 | 1.12 | 01/13/2016 |
| tert-Butyl alcohol | 25.0 | | **185** | 250.0 | 0 | 74.2 | 213.7 | 14.13 | 01/13/2016 |
| tert-Butylbenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 49.84 | 2.75 | 01/13/2016 |
| Tetrachloroethene | 5.0 | | **49.9** | 50.00 | 0 | 99.7 | 47.48 | 4.89 | 01/13/2016 |
| Tetrahydrofuran | 20.0 | | **42.7** | 50.00 | 0 | 85.5 | 43.94 | 2.79 | 01/13/2016 |
| Toluene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 47.61 | 3.67 | 01/13/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **47.2** | 50.00 | 0 | 94.3 | 46.01 | 2.49 | 01/13/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **51.5** | 50.00 | 0 | 102.9 | 50.42 | 2.06 | 01/13/2016 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608
**Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115601** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **50.3** | 50.00 | 0 | 100.7 | 51.37 | 2.03 | 01/13/2016 |
| Trichloroethene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 49.10 | 2.04 | 01/13/2016 |
| Trichlorofluoromethane | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 47.13 | 2.82 | 01/13/2016 |
| Vinyl acetate | 10.0 | | **47.1** | 50.00 | 0 | 94.1 | 48.93 | 3.88 | 01/13/2016 |
| Vinyl chloride | 2.0 | | **42.8** | 50.00 | 0 | 85.6 | 42.78 | 0.09 | 01/13/2016 |
| Xylenes, Total | 5.0 | | **152** | 150.0 | 0 | 101.1 | 150.3 | 0.95 | 01/13/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **95.6** | 100.0 | 0 | 95.6 | 93.95 | 1.70 | 01/13/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **105** | 100.0 | 0 | 104.9 | 102.8 | 2.02 | 01/13/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **97.5** | 100.0 | 0 | 97.5 | 99.83 | 2.40 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **46.9** | 50.00 | | 93.8 | | | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.1** | 50.00 | | 100.2 | | | 01/13/2016 |
| Surr: Toluene-d8 | | | **48.5** | 50.00 | | 97.0 | | | 01/13/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16010608

**Client Project:** NGA 2015-0461.21

**Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115601** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 81.9 | 115 | 01/13/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 79.4 | 124 | 01/13/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 74.7 | 116 | 01/13/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **49.3** | 50.00 | 0 | 98.6 | 72.9 | 121 | 01/13/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 80.8 | 111 | 01/13/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **105** | 125.0 | 0 | 83.7 | 66.3 | 130 | 01/13/2016 |
| 1,1-Dichloroethane | 5.0 | | **45.2** | 50.00 | 0 | 90.5 | 79.4 | 114 | 01/13/2016 |
| 1,1-Dichloroethene | 5.0 | | **46.0** | 50.00 | 0 | 92.0 | 74.1 | 117 | 01/13/2016 |
| 1,1-Dichloropropene | 5.0 | | **49.7** | 50.00 | 0 | 99.5 | 81.7 | 116 | 01/13/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **49.5** | 50.00 | 0 | 98.9 | 79.7 | 118 | 01/13/2016 |
| 1,2,3-Trichloropropane | 5.0 | | **44.3** | 50.00 | 0 | 88.6 | 77.3 | 112 | 01/13/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 79.9 | 119 | 01/13/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 79.3 | 118 | 01/13/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 78.7 | 115 | 01/13/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **44.6** | 50.00 | 0 | 89.1 | 76 | 122 | 01/13/2016 |
| 1,2-Dibromoethane | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 80.8 | 114 | 01/13/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.7 | 78.3 | 112 | 01/13/2016 |
| 1,2-Dichloroethane | 5.0 | | **45.4** | 50.00 | 0 | 90.8 | 70.6 | 118 | 01/13/2016 |
| 1,2-Dichloropropane | 5.0 | | **48.1** | 50.00 | 0 | 96.3 | 79.6 | 113 | 01/13/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.5 | 77.5 | 115 | 01/13/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 78.6 | 117 | 01/13/2016 |
| 1,3-Dichloropropane | 5.0 | | **46.2** | 50.00 | 0 | 92.4 | 78.8 | 112 | 01/13/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 77.8 | 114 | 01/13/2016 |
| 1-Chlorobutane | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 78.6 | 115 | 01/13/2016 |
| 2,2-Dichloropropane | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 74.9 | 130 | 01/13/2016 |
| 2-Butanone | 25.0 | | **118** | 125.0 | 0 | 94.1 | 70.7 | 136 | 01/13/2016 |
| 2-Chloroethyl vinyl ether | 20.0 | | **47.4** | 50.00 | 0 | 94.7 | 52.5 | 145 | 01/13/2016 |
| 2-Chlorotoluene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 77.4 | 114 | 01/13/2016 |
| 2-Hexanone | 25.0 | | **112** | 125.0 | 0 | 89.4 | 73.3 | 125 | 01/13/2016 |
| 2-Nitropropane | 50.0 | | **505** | 500.0 | 0 | 100.9 | 67.3 | 139 | 01/13/2016 |
| 4-Chlorotoluene | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 78.3 | 115 | 01/13/2016 |
| 4-Methyl-2-pentanone | 25.0 | | **110** | 125.0 | 0 | 87.9 | 76.3 | 122 | 01/13/2016 |
| Acetone | 25.0 | | **130** | 125.0 | 0 | 104.4 | 56.4 | 147 | 01/13/2016 |
| Acetonitrile | 50.0 | | **463** | 500.0 | 0 | 92.6 | 59.3 | 129 | 01/13/2016 |
| Acrolein | 100 | | **438** | 500.0 | 0 | 87.6 | 1 | 201 | 01/13/2016 |
| Acrylonitrile | 5.0 | | **44.2** | 50.00 | 0 | 88.3 | 74.1 | 128 | 01/13/2016 |
| Allyl chloride | 5.0 | | **46.9** | 50.00 | 0 | 93.8 | 71.5 | 123 | 01/13/2016 |
| Benzene | 2.0 | | **49.6** | 50.00 | 0 | 99.1 | 80 | 114 | 01/13/2016 |
| Bromobenzene | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 73.2 | 118 | 01/13/2016 |
| Bromochloromethane | 5.0 | | **45.9** | 50.00 | 0 | 91.9 | 73.3 | 121 | 01/13/2016 |
| Bromodichloromethane | 5.0 | | **51.1** | 50.00 | 0 | 102.3 | 81.6 | 121 | 01/13/2016 |
| Bromoform | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 83.1 | 127 | 01/13/2016 |
| Bromomethane | 10.0 | | **41.4** | 50.00 | 0 | 82.8 | 44.4 | 154 | 01/13/2016 |
| Carbon disulfide | 5.0 | | **46.3** | 50.00 | 0 | 92.7 | 73.2 | 118 | 01/13/2016 |
| Carbon tetrachloride | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 79.4 | 130 | 01/13/2016 |
| Chlorobenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 81.4 | 110 | 01/13/2016 |
| Chloroethane | 10.0 | | **41.7** | 50.00 | 0 | 83.4 | 52.1 | 137 | 01/13/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608

**Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115601** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **45.8** | 50.00 | 0 | 91.6 | 82.7 | 116 | 01/13/2016 |
| Chloromethane | 10.0 | | **40.5** | 50.00 | 0 | 81.0 | 48.2 | 144 | 01/13/2016 |
| Chloroprene | 20.0 | | **46.8** | 50.00 | 0 | 93.7 | 80.6 | 126 | 01/13/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **47.9** | 50.00 | 0 | 95.9 | 78.2 | 116 | 01/13/2016 |
| cis-1,3-Dichloropropene | 5.0 | | **52.4** | 50.00 | 0 | 104.7 | 83 | 119 | 01/13/2016 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **48.5** | 50.00 | 0 | 96.9 | 60.7 | 137 | 01/13/2016 |
| Cyclohexanone | 50.0 | | **432** | 500.0 | 0 | 86.5 | 54.2 | 145 | 01/13/2016 |
| Dibromochloromethane | 5.0 | | **52.0** | 50.00 | 0 | 103.9 | 81.2 | 121 | 01/13/2016 |
| Dibromomethane | 5.0 | | **48.6** | 50.00 | 0 | 97.2 | 78.3 | 118 | 01/13/2016 |
| Dichlorodifluoromethane | 10.0 | | **37.4** | 50.00 | 0 | 74.8 | 20.6 | 154 | 01/13/2016 |
| Diisopropyl ether | 2.0 | | **48.7** | 50.00 | 0 | 97.4 | 73.1 | 116 | 01/13/2016 |
| Ethyl acetate | 10.0 | | **43.9** | 50.00 | 0 | 87.7 | 73.1 | 116 | 01/13/2016 |
| Ethyl ether | 5.0 | | **43.3** | 50.00 | 0 | 86.7 | 75.2 | 109 | 01/13/2016 |
| Ethyl methacrylate | 5.0 | | **47.5** | 50.00 | 0 | 95.1 | 80.1 | 113 | 01/13/2016 |
| Ethylbenzene | 5.0 | | **48.4** | 50.00 | 0 | 96.9 | 77.2 | 113 | 01/13/2016 |
| Ethyl-tert-butyl ether | 2.0 | | **46.7** | 50.00 | 0 | 93.5 | 75 | 118 | 01/13/2016 |
| Hexachlorobutadiene | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 77.3 | 123 | 01/13/2016 |
| Hexachloroethane | 10.0 | | **51.4** | 50.00 | 0 | 102.8 | 74.6 | 117 | 01/13/2016 |
| Iodomethane | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 61.3 | 140 | 01/13/2016 |
| Isopropylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 81.3 | 114 | 01/13/2016 |
| m,p-Xylenes | 5.0 | | **100** | 100.0 | 0 | 100.5 | 79.6 | 113 | 01/13/2016 |
| Methacrylonitrile | 10.0 | | **44.8** | 50.00 | 0 | 89.6 | 77.2 | 125 | 01/13/2016 |
| Methyl Methacrylate | 5.0 | | **47.7** | 50.00 | 0 | 95.3 | 74.2 | 121 | 01/13/2016 |
| Methyl tert-butyl ether | 2.0 | | **46.8** | 50.00 | 0 | 93.5 | 76.8 | 117 | 01/13/2016 |
| Methylacrylate | 10.0 | | **46.4** | 50.00 | 0 | 92.9 | 78 | 124 | 01/13/2016 |
| Methylene chloride | 5.0 | | **44.9** | 50.00 | 0 | 89.8 | 74.1 | 114 | 01/13/2016 |
| Naphthalene | 10.0 | | **51.9** | 50.00 | 0 | 103.8 | 77.9 | 122 | 01/13/2016 |
| n-Butyl acetate | 25.0 | | **45.0** | 50.00 | 0 | 90.1 | 74 | 120 | 01/13/2016 |
| n-Butylbenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 71.1 | 120 | 01/13/2016 |
| n-Heptane | 20.0 | | **49.2** | 50.00 | 0 | 98.3 | 67.4 | 129 | 01/13/2016 |
| n-Hexane | 20.0 | | **46.5** | 50.00 | 0 | 93.1 | 68.4 | 126 | 01/13/2016 |
| Nitrobenzene | 50.0 | | **404** | 500.0 | 0 | 80.7 | 37.9 | 181 | 01/13/2016 |
| n-Propylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 74.6 | 118 | 01/13/2016 |
| o-Xylene | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 80.1 | 111 | 01/13/2016 |
| Pentachloroethane | 20.0 | | **53.1** | 50.00 | 0 | 106.3 | 78.8 | 117 | 01/13/2016 |
| p-Isopropyltoluene | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 77.6 | 118 | 01/13/2016 |
| Propionitrile | 50.0 | | **448** | 500.0 | 0 | 89.5 | 72.9 | 137 | 01/13/2016 |
| sec-Butylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 74.5 | 119 | 01/13/2016 |
| Styrene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 83.4 | 113 | 01/13/2016 |
| tert-Amyl methyl ether | 2.0 | | **50.7** | 50.00 | 0 | 101.4 | 78.7 | 117 | 01/13/2016 |
| tert-Butyl alcohol | 25.0 | | **214** | 250.0 | 0 | 85.5 | 58.1 | 139 | 01/13/2016 |
| tert-Butylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 75.9 | 114 | 01/13/2016 |
| Tetrachloroethene | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 72.5 | 125 | 01/13/2016 |
| Tetrahydrofuran | 20.0 | | **43.9** | 50.00 | 0 | 87.9 | 69.6 | 125 | 01/13/2016 |
| Toluene | 5.0 | | **47.6** | 50.00 | 0 | 95.2 | 77.5 | 113 | 01/13/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **46.0** | 50.00 | 0 | 92.0 | 79 | 114 | 01/13/2016 |
| trans-1,3-Dichloropropene | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 78 | 115 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115601** **SampType: LCS** Units **µg/L**

SampID: LCS-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **51.4** | 50.00 | 0 | 102.7 | 63.3 | 128 | 01/13/2016 |
| Trichloroethene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 84.4 | 114 | 01/13/2016 |
| Trichlorofluoromethane | 5.0 | | **47.1** | 50.00 | 0 | 94.3 | 75.2 | 132 | 01/13/2016 |
| Vinyl acetate | 10.0 | | **48.9** | 50.00 | 0 | 97.9 | 64.5 | 127 | 01/13/2016 |
| Vinyl chloride | 2.0 | | **42.8** | 50.00 | 0 | 85.6 | 58 | 134 | 01/13/2016 |
| Xylenes, Total | 5.0 | | **150** | 150.0 | 0 | 100.2 | 80.1 | 111 | 01/13/2016 |
| 1,2-Dichloroethene, Total | 5.0 | | **94.0** | 100.0 | 0 | 94.0 | 78.2 | 116 | 01/13/2016 |
| 1,3-Dichloropropene, Total | 5.0 | | **103** | 100.0 | 0 | 102.8 | 78 | 119 | 01/13/2016 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **99.8** | 100.0 | 0 | 99.8 | 60.7 | 137 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.8** | 50.00 | | 95.6 | 74.7 | 129 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.0** | 50.00 | | 100.1 | 86 | 119 | 01/13/2016 |
| Surr: Toluene-d8 | | | **47.5** | 50.00 | | 95.0 | 84.1 | 114 | 01/13/2016 |

**Batch 115601** **SampType: LCSGD** Units **µg/L** RPD Limit **20**

SampID: LCSGD-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2090** | 2000 | 0 | 104.5 | 2177 | 4.09 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.0** | 50.00 | | 94.0 | | | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.5** | 50.00 | | 101.0 | | | 01/13/2016 |
| Surr: Toluene-d8 | | | **49.3** | 50.00 | | 98.5 | | | 01/13/2016 |

**Batch 115601** **SampType: LCSG** Units **µg/L**

SampID: LCSG-N160113-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2180** | 2000 | 0 | 108.9 | 70 | 130 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.0** | 50.00 | | 93.9 | 74.7 | 129 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.8** | 50.00 | | 101.7 | 86 | 119 | 01/13/2016 |
| Surr: Toluene-d8 | | | **49.8** | 50.00 | | 99.5 | 84.3 | 114 | 01/13/2016 |

**Batch 115601** **SampType: MS** Units **µg/L**

SampID: 16010639-002AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 250 | | **2150** | 2500 | 0 | 86.0 | 35.7 | 136 | 01/13/2016 |
| Benzene | 100 | | **6200** | 2500 | 3815 | 95.4 | 62.5 | 121 | 01/13/2016 |
| Chlorobenzene | 250 | | **2360** | 2500 | 0 | 94.4 | 78.6 | 114 | 01/13/2016 |
| Ethylbenzene | 250 | | **2570** | 2500 | 142.0 | 97.0 | 74.4 | 130 | 01/13/2016 |
| m,p-Xylenes | 250 | | **4030** | 2500 | 1558 | 98.9 | 70.5 | 126 | 01/13/2016 |
| o-Xylene | 250 | | **2500** | 2500 | 80.50 | 97.0 | 71.2 | 124 | 01/13/2016 |
| Toluene | 250 | | **2440** | 2500 | 118.5 | 92.8 | 69.5 | 118 | 01/13/2016 |
| Trichloroethene | 250 | | **2410** | 2500 | 0 | 96.3 | 69.4 | 117 | 01/13/2016 |
| Xylenes, Total | 250 | | **6540** | 5000 | 1639 | 97.9 | 71.1 | 125 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **2620** | 2500 | | 104.7 | 74.7 | 129 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **2530** | 2500 | | 101.0 | 86 | 119 | 01/13/2016 |
| Surr: Toluene-d8 | | | **2450** | 2500 | | 98.0 | 84.3 | 114 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115601** **SampType:** **MSD** Units **µg/L** RPD Limit **20**

SampID: 16010639-002AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 250 | | **2240** | 2500 | 0 | 89.5 | 2150 | 4.03 | 01/13/2016 |
| Benzene | 100 | | **6360** | 2500 | 3815 | 101.7 | 6201 | 2.48 | 01/13/2016 |
| Chlorobenzene | 250 | | **2390** | 2500 | 0 | 95.7 | 2360 | 1.39 | 01/13/2016 |
| Ethylbenzene | 250 | | **2660** | 2500 | 142.0 | 100.6 | 2568 | 3.39 | 01/13/2016 |
| m,p-Xylenes | 250 | | **4180** | 2500 | 1558 | 105.0 | 4032 | 3.72 | 01/13/2016 |
| o-Xylene | 250 | | **2560** | 2500 | 80.50 | 99.3 | 2504 | 2.31 | 01/13/2016 |
| Toluene | 250 | | **2470** | 2500 | 118.5 | 93.9 | 2438 | 1.16 | 01/13/2016 |
| Trichloroethene | 250 | | **2490** | 2500 | 0 | 99.5 | 2408 | 3.27 | 01/13/2016 |
| Xylenes, Total | 250 | | **6750** | 5000 | 1639 | 102.2 | 6536 | 3.18 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **2620** | 2500 | | 104.7 | | | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **2530** | 2500 | | 101.3 | | | 01/13/2016 |
| Surr: Toluene-d8 | | | **2470** | 2500 | | 98.7 | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/13/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Acetone | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Acetonitrile | 100 | | **ND** | | | | | | 01/13/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/13/2016 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Benzene | 1.0 | | **ND** | | | | | | 01/13/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Chloroform | 5.0 | | **ND** | | | | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/13/2016 |
| Cyclohexanone | 100 | | **ND** | | | | | | 01/13/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Iodomethane | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/13/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/13/2016 |
| Methylene chloride | 5.0 | J | **1.0** | | | | | | 01/13/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/13/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/13/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/13/2016 |
| Nitrobenzene | 100 | | **ND** | | | | | | 01/13/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/13/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 01/13/2016 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 01/13/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/13/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/13/2016 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 01/13/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/13/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.1** | 50.00 | | 100.1 | 72.2 | 131 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.8** | 50.00 | | 99.7 | 82.1 | 116 | 01/13/2016 |
| Surr: Toluene-d8 | | | **48.8** | 50.00 | | 97.5 | 86 | 116 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 83.1 | 114 | 01/13/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **54.0** | 50.00 | 0 | 107.9 | 78.5 | 119 | 01/13/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.2** | 50.00 | 0 | 96.5 | 67.4 | 120 | 01/13/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **58.7** | 50.00 | 0 | 117.5 | 75.4 | 121 | 01/13/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 81.1 | 111 | 01/13/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **104** | 125.0 | 0 | 83.0 | 55.4 | 131 | 01/13/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 80.1 | 116 | 01/13/2016 |
| 1,1-Dichloroethene | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 73.1 | 121 | 01/13/2016 |
| 1,1-Dichloropropene | 5.0 | | **55.1** | 50.00 | 0 | 110.3 | 82.2 | 114 | 01/13/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **56.6** | 50.00 | 0 | 113.1 | 81.7 | 130 | 01/13/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **48.6** | 50.00 | 0 | 97.1 | 67.8 | 118 | 01/13/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.9 | 82.1 | 127 | 01/13/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **59.3** | 50.00 | 0 | 118.6 | 72.3 | 141 | 01/13/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **56.9** | 50.00 | 0 | 113.8 | 79.7 | 123 | 01/13/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **43.1** | 50.00 | 0 | 86.3 | 62.1 | 123 | 01/13/2016 |
| 1,2-Dibromoethane | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 82.4 | 112 | 01/13/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **54.8** | 50.00 | 0 | 109.5 | 82.7 | 119 | 01/13/2016 |
| 1,2-Dichloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 72.8 | 120 | 01/13/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.1** | 50.00 | 0 | 102.3 | 80 | 116 | 01/13/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **54.4** | 50.00 | 0 | 108.7 | 81.5 | 125 | 01/13/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **57.5** | 50.00 | 0 | 115.0 | 82 | 124 | 01/13/2016 |
| 1,3-Dichloropropane | 5.0 | | **49.0** | 50.00 | 0 | 97.9 | 79.8 | 113 | 01/13/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **56.4** | 50.00 | 0 | 112.8 | 81.1 | 124 | 01/13/2016 |
| 1-Chlorobutane | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 77.2 | 113 | 01/13/2016 |
| 2,2-Dichloropropane | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 76.6 | 121 | 01/13/2016 |
| 2-Butanone | 50.0 | | **99.7** | 125.0 | 0 | 79.8 | 62.8 | 131 | 01/13/2016 |
| 2-Chlorotoluene | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 78.8 | 121 | 01/13/2016 |
| 2-Hexanone | 50.0 | | **93.2** | 125.0 | 0 | 74.6 | 63.1 | 125 | 01/13/2016 |
| 2-Nitropropane | 50.0 | | **492** | 500.0 | 0 | 98.5 | 61.2 | 129 | 01/13/2016 |
| 4-Chlorotoluene | 5.0 | | **55.9** | 50.00 | 0 | 111.8 | 77.6 | 124 | 01/13/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **113** | 125.0 | 0 | 90.4 | 60.6 | 126 | 01/13/2016 |
| Acetone | 50.0 | | **110** | 125.0 | 0 | 88.1 | 39.5 | 159 | 01/13/2016 |
| Acetonitrile | 100 | | **489** | 500.0 | 0 | 97.8 | 64.8 | 123 | 01/13/2016 |
| Acrolein | 100 | | **457** | 500.0 | 0 | 91.4 | 1 | 167 | 01/13/2016 |
| Acrylonitrile | 10.0 | | **47.8** | 50.00 | 0 | 95.5 | 67 | 124 | 01/13/2016 |
| Allyl chloride | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 58.5 | 129 | 01/13/2016 |
| Benzene | 1.0 | | **53.9** | 50.00 | 0 | 107.8 | 80.8 | 117 | 01/13/2016 |
| Bromobenzene | 5.0 | | **51.0** | 50.00 | 0 | 102.1 | 79.6 | 117 | 01/13/2016 |
| Bromochloromethane | 5.0 | | **48.9** | 50.00 | 0 | 97.9 | 70.7 | 121 | 01/13/2016 |
| Bromodichloromethane | 5.0 | | **51.1** | 50.00 | 0 | 102.1 | 80.7 | 121 | 01/13/2016 |
| Bromoform | 5.0 | | **54.8** | 50.00 | 0 | 109.7 | 79.8 | 118 | 01/13/2016 |
| Bromomethane | 10.0 | | **55.5** | 50.00 | 0 | 110.9 | 1 | 175 | 01/13/2016 |
| Carbon disulfide | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 62.8 | 123 | 01/13/2016 |
| Carbon tetrachloride | 5.0 | | **56.0** | 50.00 | 0 | 112.1 | 77.6 | 123 | 01/13/2016 |
| Chlorobenzene | 5.0 | | **54.3** | 50.00 | 0 | 108.7 | 85.6 | 116 | 01/13/2016 |
| Chloroethane | 10.0 | | **53.0** | 50.00 | 0 | 106.0 | 60.2 | 125 | 01/13/2016 |
| Chloroform | 5.0 | | **53.2** | 50.00 | 0 | 106.3 | 77.9 | 116 | 01/13/2016 |

**Client:** SCI Engineering, Inc.

**Work Order:** 16010608

**Client Project:** NGA 2015-0461.21

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **44.7** | 50.00 | 0 | 89.4 | 29.9 | 157 | 01/13/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **51.1** | 50.00 | 0 | 102.3 | 80.1 | 116 | 01/13/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **52.7** | 50.00 | 0 | 105.4 | 80.5 | 121 | 01/13/2016 |
| Cyclohexanone | 100 | | **415** | 500.0 | 0 | 83.0 | 45.4 | 128 | 01/13/2016 |
| Dibromochloromethane | 5.0 | | **52.5** | 50.00 | 0 | 105.1 | 84.3 | 116 | 01/13/2016 |
| Dibromomethane | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 76.6 | 115 | 01/13/2016 |
| Dichlorodifluoromethane | 10.0 | | **45.8** | 50.00 | 0 | 91.6 | 1 | 200 | 01/13/2016 |
| Diisopropyl ether | 5.0 | | **46.6** | 50.00 | 0 | 93.1 | 73.6 | 119 | 01/13/2016 |
| Ethyl ether | 5.0 | | **48.1** | 50.00 | 0 | 96.1 | 73.4 | 116 | 01/13/2016 |
| Ethyl methacrylate | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 76.2 | 120 | 01/13/2016 |
| Ethylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 84.8 | 116 | 01/13/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **47.7** | 50.00 | 0 | 95.4 | 73.8 | 119 | 01/13/2016 |
| Hexachlorobutadiene | 5.0 | | **59.6** | 50.00 | 0 | 119.2 | 74 | 135 | 01/13/2016 |
| Hexachloroethane | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 76.4 | 121 | 01/13/2016 |
| Iodomethane | 10.0 | | **64.7** | 50.00 | 0 | 129.5 | 38.7 | 161 | 01/13/2016 |
| Isopropylbenzene | 5.0 | | **52.5** | 50.00 | 0 | 105.1 | 85 | 125 | 01/13/2016 |
| m,p-Xylenes | 5.0 | | **109** | 100.0 | 0 | 109.0 | 85.3 | 120 | 01/13/2016 |
| Methacrylonitrile | 50.0 | J | **46** | 50.00 | 0 | 92.9 | 65.7 | 120 | 01/13/2016 |
| Methyl Methacrylate | 5.0 | | **46.0** | 50.00 | 0 | 92.1 | 69.1 | 114 | 01/13/2016 |
| Methyl tert-butyl ether | 2.0 | | **48.0** | 50.00 | 0 | 95.9 | 66.6 | 125 | 01/13/2016 |
| Methylacrylate | 10.0 | | **50.4** | 50.00 | 0 | 100.9 | 69.7 | 121 | 01/13/2016 |
| Methylene chloride | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 73.4 | 115 | 01/13/2016 |
| Naphthalene | 10.0 | | **50.0** | 50.00 | 0 | 100.0 | 70.1 | 134 | 01/13/2016 |
| n-Butylbenzene | 5.0 | | **59.1** | 50.00 | 0 | 118.3 | 78.4 | 138 | 01/13/2016 |
| n-Heptane | 20.0 | | **56.1** | 50.00 | 0 | 112.2 | 74.3 | 125 | 01/13/2016 |
| n-Hexane | 20.0 | | **58.8** | 50.00 | 0 | 117.6 | 66.3 | 129 | 01/13/2016 |
| Nitrobenzene | 100 | | **436** | 500.0 | 0 | 87.1 | 20.1 | 165 | 01/13/2016 |
| n-Propylbenzene | 5.0 | | **57.2** | 50.00 | 0 | 114.4 | 79.1 | 125 | 01/13/2016 |
| o-Xylene | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 81.9 | 118 | 01/13/2016 |
| Pentachloroethane | 5.0 | | **56.6** | 50.00 | 0 | 113.2 | 72.7 | 123 | 01/13/2016 |
| p-Isopropyltoluene | 5.0 | | **55.9** | 50.00 | 0 | 111.8 | 82.7 | 129 | 01/13/2016 |
| Propionitrile | 50.0 | | **498** | 500.0 | 0 | 99.6 | 64.3 | 121 | 01/13/2016 |
| sec-Butylbenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 81.3 | 125 | 01/13/2016 |
| Styrene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 88.2 | 122 | 01/13/2016 |
| tert-Amyl methyl ether | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 74.5 | 120 | 01/13/2016 |
| tert-Butyl alcohol | 50.0 | | **233** | 250.0 | 0 | 93.2 | 51.3 | 129 | 01/13/2016 |
| tert-Butylbenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.7 | 74.8 | 125 | 01/13/2016 |
| Tetrachloroethene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 84.2 | 122 | 01/13/2016 |
| Tetrahydrofuran | 50.0 | J | **45** | 50.00 | 0 | 90.6 | 61 | 118 | 01/13/2016 |
| Toluene | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 81.3 | 113 | 01/13/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 78.2 | 118 | 01/13/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **50.9** | 50.00 | 0 | 101.8 | 81.7 | 124 | 01/13/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **47.7** | 50.00 | 0 | 95.4 | 63.9 | 117 | 01/13/2016 |
| Trichloroethene | 5.0 | | **55.8** | 50.00 | 0 | 111.7 | 81 | 123 | 01/13/2016 |
| Trichlorofluoromethane | 5.0 | | **55.6** | 50.00 | 0 | 111.3 | 66.8 | 131 | 01/13/2016 |
| Vinyl acetate | 50.0 | J | **50** | 50.00 | 0 | 100.0 | 64.3 | 122 | 01/13/2016 |
| Vinyl chloride | 2.0 | | **50.4** | 50.00 | 0 | 100.8 | 45.2 | 140 | 01/13/2016 |

# Quality Control Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608
**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **163** | 150.0 | 0 | 108.5 | 85.3 | 118 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.2** | 50.00 | | 94.5 | 72.2 | 131 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.4 | 82.1 | 116 | 01/13/2016 |
| Surr: Toluene-d8 | | | **47.7** | 50.00 | | 95.4 | 86 | 116 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 51.51 | 2.42 | 01/13/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 53.95 | 0.43 | 01/13/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 48.24 | 5.25 | 01/13/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **58.1** | 50.00 | 0 | 116.3 | 58.73 | 1.01 | 01/13/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 49.84 | 1.32 | 01/13/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **121** | 125.0 | 0 | 96.7 | 103.7 | 15.25 | 01/13/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 53.58 | 0.32 | 01/13/2016 |
| 1,1-Dichloroethene | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 53.23 | 0.77 | 01/13/2016 |
| 1,1-Dichloropropene | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 55.13 | 0.78 | 01/13/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **56.7** | 50.00 | 0 | 113.4 | 56.55 | 0.23 | 01/13/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **50.8** | 50.00 | 0 | 101.5 | 48.55 | 4.45 | 01/13/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 50.44 | 1.34 | 01/13/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **59.6** | 50.00 | 0 | 119.2 | 59.32 | 0.50 | 01/13/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **54.8** | 50.00 | 0 | 109.6 | 56.89 | 3.78 | 01/13/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **49.7** | 50.00 | 0 | 99.3 | 43.14 | 14.07 | 01/13/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 48.01 | 3.92 | 01/13/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.1 | 54.75 | 1.25 | 01/13/2016 |
| 1,2-Dichloroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 50.30 | 1.87 | 01/13/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.7** | 50.00 | 0 | 103.5 | 51.13 | 1.17 | 01/13/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 54.35 | 3.52 | 01/13/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **56.2** | 50.00 | 0 | 112.5 | 57.51 | 2.25 | 01/13/2016 |
| 1,3-Dichloropropane | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 48.96 | 1.06 | 01/13/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.5 | 56.42 | 1.16 | 01/13/2016 |
| 1-Chlorobutane | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 52.10 | 1.02 | 01/13/2016 |
| 2,2-Dichloropropane | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 54.51 | 0.87 | 01/13/2016 |
| 2-Butanone | 50.0 | | **114** | 125.0 | 0 | 91.4 | 99.72 | 13.62 | 01/13/2016 |
| 2-Chlorotoluene | 5.0 | | **54.6** | 50.00 | 0 | 109.1 | 55.49 | 1.69 | 01/13/2016 |
| 2-Hexanone | 50.0 | | **105** | 125.0 | 0 | 84.2 | 93.21 | 12.10 | 01/13/2016 |
| 2-Nitropropane | 50.0 | | **559** | 500.0 | 0 | 111.7 | 492.3 | 12.63 | 01/13/2016 |
| 4-Chlorotoluene | 5.0 | | **55.3** | 50.00 | 0 | 110.5 | 55.88 | 1.12 | 01/13/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **126** | 125.0 | 0 | 100.6 | 113.0 | 10.67 | 01/13/2016 |
| Acetone | 50.0 | | **125** | 125.0 | 0 | 99.6 | 110.1 | 12.33 | 01/13/2016 |
| Acetonitrile | 100 | | **549** | 500.0 | 0 | 109.7 | 488.9 | 11.52 | 01/13/2016 |
| Acrolein | 100 | | **510** | 500.0 | 0 | 101.9 | 456.8 | 10.93 | 01/13/2016 |
| Acrylonitrile | 10.0 | | **52.1** | 50.00 | 0 | 104.1 | 47.76 | 8.62 | 01/13/2016 |
| Allyl chloride | 5.0 | | **48.8** | 50.00 | 0 | 97.7 | 49.12 | 0.55 | 01/13/2016 |
| Benzene | 1.0 | | **53.9** | 50.00 | 0 | 107.8 | 53.91 | 0.02 | 01/13/2016 |
| Bromobenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 51.04 | 0.71 | 01/13/2016 |
| Bromochloromethane | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 48.94 | 2.64 | 01/13/2016 |
| Bromodichloromethane | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 51.07 | 1.23 | 01/13/2016 |
| Bromoform | 5.0 | | **56.3** | 50.00 | 0 | 112.6 | 54.85 | 2.64 | 01/13/2016 |
| Bromomethane | 10.0 | | **55.9** | 50.00 | 0 | 111.8 | 55.46 | 0.75 | 01/13/2016 |
| Carbon disulfide | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 53.27 | 0.32 | 01/13/2016 |
| Carbon tetrachloride | 5.0 | | **55.6** | 50.00 | 0 | 111.1 | 56.03 | 0.82 | 01/13/2016 |
| Chlorobenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 54.33 | 1.30 | 01/13/2016 |
| Chloroethane | 10.0 | | **53.6** | 50.00 | 0 | 107.2 | 53.00 | 1.14 | 01/13/2016 |
| Chloroform | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 53.16 | 0.21 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115581** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **45.7** | 50.00 | 0 | 91.5 | 44.68 | 2.34 | 01/13/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 51.14 | 0.97 | 01/13/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **53.1** | 50.00 | 0 | 106.2 | 52.71 | 0.76 | 01/13/2016 |
| Cyclohexanone | 100 | | **475** | 500.0 | 0 | 95.0 | 415.1 | 13.48 | 01/13/2016 |
| Dibromochloromethane | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 52.53 | 0.25 | 01/13/2016 |
| Dibromomethane | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 51.39 | 2.99 | 01/13/2016 |
| Dichlorodifluoromethane | 10.0 | | **45.1** | 50.00 | 0 | 90.2 | 45.80 | 1.58 | 01/13/2016 |
| Diisopropyl ether | 5.0 | | **47.2** | 50.00 | 0 | 94.5 | 46.57 | 1.41 | 01/13/2016 |
| Ethyl ether | 5.0 | | **49.4** | 50.00 | 0 | 98.7 | 48.06 | 2.65 | 01/13/2016 |
| Ethyl methacrylate | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 48.28 | 4.63 | 01/13/2016 |
| Ethylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.6 | 51.60 | 1.52 | 01/13/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 47.71 | 2.85 | 01/13/2016 |
| Hexachlorobutadiene | 5.0 | | **59.7** | 50.00 | 0 | 119.4 | 59.58 | 0.20 | 01/13/2016 |
| Hexachloroethane | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 52.34 | 1.85 | 01/13/2016 |
| Iodomethane | 10.0 | | **65.3** | 50.00 | 0 | 130.5 | 64.73 | 0.83 | 01/13/2016 |
| Isopropylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 52.54 | 1.42 | 01/13/2016 |
| m,p-Xylenes | 5.0 | | **108** | 100.0 | 0 | 108.4 | 109.0 | 0.51 | 01/13/2016 |
| Methacrylonitrile | 50.0 | | **51.1** | 50.00 | 0 | 102.3 | 46.43 | 9.65 | 01/13/2016 |
| Methyl Methacrylate | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 46.04 | 7.53 | 01/13/2016 |
| Methyl tert-butyl ether | 2.0 | | **50.3** | 50.00 | 0 | 100.6 | 47.97 | 4.76 | 01/13/2016 |
| Methylacrylate | 10.0 | | **56.3** | 50.00 | 0 | 112.5 | 50.43 | 10.95 | 01/13/2016 |
| Methylene chloride | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 50.95 | 0.94 | 01/13/2016 |
| Naphthalene | 10.0 | | **53.9** | 50.00 | 0 | 107.8 | 50.02 | 7.47 | 01/13/2016 |
| n-Butylbenzene | 5.0 | | **56.8** | 50.00 | 0 | 113.5 | 59.14 | 4.12 | 01/13/2016 |
| n-Heptane | 20.0 | | **53.6** | 50.00 | 0 | 107.3 | 56.12 | 4.54 | 01/13/2016 |
| n-Hexane | 20.0 | | **56.7** | 50.00 | 0 | 113.4 | 58.80 | 3.62 | 01/13/2016 |
| Nitrobenzene | 100 | | **510** | 500.0 | 0 | 102.0 | 435.5 | 15.76 | 01/13/2016 |
| n-Propylbenzene | 5.0 | | **55.5** | 50.00 | 0 | 111.1 | 57.20 | 2.96 | 01/13/2016 |
| o-Xylene | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 53.86 | 1.55 | 01/13/2016 |
| Pentachloroethane | 5.0 | | **54.4** | 50.00 | 0 | 108.7 | 56.61 | 4.06 | 01/13/2016 |
| p-Isopropyltoluene | 5.0 | | **53.9** | 50.00 | 0 | 107.9 | 55.90 | 3.57 | 01/13/2016 |
| Propionitrile | 50.0 | | **563** | 500.0 | 0 | 112.6 | 497.9 | 12.29 | 01/13/2016 |
| sec-Butylbenzene | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 54.25 | 2.41 | 01/13/2016 |
| Styrene | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 54.31 | 0.52 | 01/13/2016 |
| tert-Amyl methyl ether | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 48.82 | 4.52 | 01/13/2016 |
| tert-Butyl alcohol | 50.0 | | **272** | 250.0 | 0 | 108.7 | 232.9 | 15.37 | 01/13/2016 |
| tert-Butylbenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 55.85 | 4.13 | 01/13/2016 |
| Tetrachloroethene | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 52.08 | 1.22 | 01/13/2016 |
| Tetrahydrofuran | 50.0 | | **51.8** | 50.00 | 0 | 103.6 | 45.29 | 13.37 | 01/13/2016 |
| Toluene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 52.93 | 2.56 | 01/13/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **53.6** | 50.00 | 0 | 107.1 | 53.51 | 0.11 | 01/13/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **51.7** | 50.00 | 0 | 103.4 | 50.89 | 1.60 | 01/13/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 47.70 | 4.37 | 01/13/2016 |
| Trichloroethene | 5.0 | | **55.4** | 50.00 | 0 | 110.9 | 55.84 | 0.74 | 01/13/2016 |
| Trichlorofluoromethane | 5.0 | | **55.3** | 50.00 | 0 | 110.7 | 55.63 | 0.54 | 01/13/2016 |
| Vinyl acetate | 50.0 | | **52.6** | 50.00 | 0 | 105.2 | 49.99 | 5.13 | 01/13/2016 |
| Vinyl chloride | 2.0 | | **50.2** | 50.00 | 0 | 100.4 | 50.41 | 0.46 | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115581** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **161** | 150.0 | 0 | 107.6 | 162.8 | 0.85 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.3** | 50.00 | | 98.6 | | | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.0** | 50.00 | | 100.0 | | | 01/13/2016 |
| Surr: Toluene-d8 | | | **46.7** | 50.00 | | 93.4 | | | 01/13/2016 |

**Batch 115581** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2180** | 2000 | 0 | 109.1 | 70 | 130 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.0** | 50.00 | | 96.1 | 72.2 | 131 | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.3** | 50.00 | | 98.7 | 82.1 | 116 | 01/13/2016 |
| Surr: Toluene-d8 | | | **49.7** | 50.00 | | 99.5 | 86 | 116 | 01/13/2016 |

**Batch 115581** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A160113A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2160** | 2000 | 0 | 108.2 | 2182 | 0.82 | 01/13/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.3** | 50.00 | | 98.5 | | | 01/13/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.8** | 50.00 | | 99.5 | | | 01/13/2016 |
| Surr: Toluene-d8 | | | **49.5** | 50.00 | | 99.1 | | | 01/13/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115619** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Acetone | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Acetonitrile | 100 | | **ND** | | | | | | 01/14/2016 |
| Acrolein | 100 | | **ND** | | | | | | 01/14/2016 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Benzene | 1.0 | | **ND** | | | | | | 01/14/2016 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromoform | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Bromomethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Chloroethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Chloroform | 5.0 | | **ND** | | | | | | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115619** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/14/2016 |
| Cyclohexanone | 100 | | **ND** | | | | | | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Iodomethane | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 01/14/2016 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 01/14/2016 |
| Methylene chloride | 5.0 | J | **1.0** | | | | | | 01/14/2016 |
| Naphthalene | 10.0 | | **ND** | | | | | | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| n-Heptane | 20.0 | | **ND** | | | | | | 01/14/2016 |
| n-Hexane | 20.0 | | **ND** | | | | | | 01/14/2016 |
| Nitrobenzene | 100 | | **ND** | | | | | | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| o-Xylene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Propionitrile | 50.0 | | **ND** | | | | | | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Styrene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 01/14/2016 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Toluene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 01/14/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 01/14/2016 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 01/14/2016 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115619** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 01/14/2016 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.1** | 50.00 | | 96.2 | 72.2 | 131 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.5** | 50.00 | | 99.1 | 82.1 | 116 | 01/14/2016 |
| Surr: Toluene-d8 | | | **48.9** | 50.00 | | 97.8 | 86 | 116 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115619** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 83.1 | 114 | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 78.5 | 119 | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 67.4 | 120 | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **57.8** | 50.00 | 0 | 115.5 | 75.4 | 121 | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 81.1 | 111 | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **112** | 125.0 | 0 | 90.0 | 55.4 | 131 | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 80.1 | 116 | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **51.3** | 50.00 | 0 | 102.5 | 73.1 | 121 | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 82.2 | 114 | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.7 | 81.7 | 130 | 01/14/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **49.8** | 50.00 | 0 | 99.6 | 67.8 | 118 | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.2** | 50.00 | 0 | 98.3 | 82.1 | 127 | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **58.4** | 50.00 | 0 | 116.8 | 72.3 | 141 | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **55.0** | 50.00 | 0 | 110.0 | 79.7 | 123 | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **45.9** | 50.00 | 0 | 91.7 | 62.1 | 123 | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 82.4 | 112 | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **53.0** | 50.00 | 0 | 106.0 | 82.7 | 119 | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 72.8 | 120 | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 80 | 116 | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 81.5 | 125 | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **55.0** | 50.00 | 0 | 109.9 | 82 | 124 | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 79.8 | 113 | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **54.4** | 50.00 | 0 | 108.9 | 81.1 | 124 | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 77.2 | 113 | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 76.6 | 121 | 01/14/2016 |
| 2-Butanone | 50.0 | | **103** | 125.0 | 0 | 82.5 | 62.8 | 131 | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 78.8 | 121 | 01/14/2016 |
| 2-Hexanone | 50.0 | | **96.0** | 125.0 | 0 | 76.8 | 63.1 | 125 | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **515** | 500.0 | 0 | 103.0 | 61.2 | 129 | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 77.6 | 124 | 01/14/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **119** | 125.0 | 0 | 94.9 | 60.6 | 126 | 01/14/2016 |
| Acetone | 50.0 | | **111** | 125.0 | 0 | 88.6 | 39.5 | 159 | 01/14/2016 |
| Acetonitrile | 100 | | **497** | 500.0 | 0 | 99.5 | 64.8 | 123 | 01/14/2016 |
| Acrolein | 100 | | **527** | 500.0 | 0 | 105.5 | 1 | 167 | 01/14/2016 |
| Acrylonitrile | 10.0 | | **49.7** | 50.00 | 0 | 99.4 | 67 | 124 | 01/14/2016 |
| Allyl chloride | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 58.5 | 129 | 01/14/2016 |
| Benzene | 1.0 | | **53.4** | 50.00 | 0 | 106.8 | 80.8 | 117 | 01/14/2016 |
| Bromobenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 79.6 | 117 | 01/14/2016 |
| Bromochloromethane | 5.0 | | **47.6** | 50.00 | 0 | 95.1 | 70.7 | 121 | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 80.7 | 121 | 01/14/2016 |
| Bromoform | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 79.8 | 118 | 01/14/2016 |
| Bromomethane | 10.0 | | **50.9** | 50.00 | 0 | 101.8 | 1 | 175 | 01/14/2016 |
| Carbon disulfide | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 62.8 | 123 | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **56.1** | 50.00 | 0 | 112.1 | 77.6 | 123 | 01/14/2016 |
| Chlorobenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 85.6 | 116 | 01/14/2016 |
| Chloroethane | 10.0 | | **51.4** | 50.00 | 0 | 102.8 | 60.2 | 125 | 01/14/2016 |
| Chloroform | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 77.9 | 116 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115619** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **39.8** | 50.00 | 0 | 79.5 | 29.9 | 157 | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 80.1 | 116 | 01/14/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **52.4** | 50.00 | 0 | 104.8 | 80.5 | 121 | 01/14/2016 |
| Cyclohexanone | 100 | | **441** | 500.0 | 0 | 88.2 | 45.4 | 128 | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **52.1** | 50.00 | 0 | 104.1 | 84.3 | 116 | 01/14/2016 |
| Dibromomethane | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 76.6 | 115 | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **38.5** | 50.00 | 0 | 77.1 | 1 | 200 | 01/14/2016 |
| Diisopropyl ether | 5.0 | | **46.0** | 50.00 | 0 | 92.1 | 73.6 | 119 | 01/14/2016 |
| Ethyl ether | 5.0 | | **48.3** | 50.00 | 0 | 96.5 | 73.4 | 116 | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 76.2 | 120 | 01/14/2016 |
| Ethylbenzene | 5.0 | | **50.1** | 50.00 | 0 | 100.3 | 84.8 | 116 | 01/14/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **47.9** | 50.00 | 0 | 95.9 | 73.8 | 119 | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **58.1** | 50.00 | 0 | 116.2 | 74 | 135 | 01/14/2016 |
| Hexachloroethane | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 76.4 | 121 | 01/14/2016 |
| Iodomethane | 10.0 | | **63.8** | 50.00 | 0 | 127.5 | 38.7 | 161 | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 85 | 125 | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **106** | 100.0 | 0 | 106.4 | 85.3 | 120 | 01/14/2016 |
| Methacrylonitrile | 50.0 | J | **48** | 50.00 | 0 | 95.0 | 65.7 | 120 | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **47.6** | 50.00 | 0 | 95.3 | 69.1 | 114 | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **48.9** | 50.00 | 0 | 97.8 | 66.6 | 125 | 01/14/2016 |
| Methylacrylate | 10.0 | | **53.4** | 50.00 | 0 | 106.8 | 69.7 | 121 | 01/14/2016 |
| Methylene chloride | 5.0 | | **48.8** | 50.00 | 0 | 97.7 | 73.4 | 115 | 01/14/2016 |
| Naphthalene | 10.0 | | **51.6** | 50.00 | 0 | 103.2 | 70.1 | 134 | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **56.0** | 50.00 | 0 | 112.1 | 78.4 | 138 | 01/14/2016 |
| n-Heptane | 20.0 | | **53.7** | 50.00 | 0 | 107.4 | 74.3 | 125 | 01/14/2016 |
| n-Hexane | 20.0 | | **56.4** | 50.00 | 0 | 112.8 | 66.3 | 129 | 01/14/2016 |
| Nitrobenzene | 100 | | **471** | 500.0 | 0 | 94.2 | 20.1 | 165 | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **55.2** | 50.00 | 0 | 110.3 | 79.1 | 125 | 01/14/2016 |
| o-Xylene | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 81.9 | 118 | 01/14/2016 |
| Pentachloroethane | 5.0 | | **51.0** | 50.00 | 0 | 102.1 | 72.7 | 123 | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 82.7 | 129 | 01/14/2016 |
| Propionitrile | 50.0 | | **517** | 500.0 | 0 | 103.3 | 64.3 | 121 | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 81.3 | 125 | 01/14/2016 |
| Styrene | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 88.2 | 122 | 01/14/2016 |
| tert-Amyl methyl ether | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 74.5 | 120 | 01/14/2016 |
| tert-Butyl alcohol | 50.0 | | **255** | 250.0 | 0 | 102.1 | 51.3 | 129 | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 74.8 | 125 | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **55.0** | 50.00 | 0 | 110.0 | 84.2 | 122 | 01/14/2016 |
| Tetrahydrofuran | 50.0 | J | **45** | 50.00 | 0 | 89.8 | 61 | 118 | 01/14/2016 |
| Toluene | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 81.3 | 113 | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 78.2 | 118 | 01/14/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **50.4** | 50.00 | 0 | 100.9 | 81.7 | 124 | 01/14/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 63.9 | 117 | 01/14/2016 |
| Trichloroethene | 5.0 | | **56.0** | 50.00 | 0 | 112.0 | 81 | 123 | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 66.8 | 131 | 01/14/2016 |
| Vinyl acetate | 50.0 | | **51.0** | 50.00 | 0 | 102.0 | 64.3 | 122 | 01/14/2016 |
| Vinyl chloride | 2.0 | | **46.0** | 50.00 | 0 | 92.1 | 45.2 | 140 | 01/14/2016 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608

**Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115619** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **158** | 150.0 | 0 | 105.4 | 85.3 | 118 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.4** | 50.00 | | 94.8 | 72.2 | 131 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **50.1** | 50.00 | | 100.1 | 82.1 | 116 | 01/14/2016 |
| Surr: Toluene-d8 | | | **47.7** | 50.00 | | 95.3 | 86 | 116 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115619** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 50.51 | 0.22 | 01/14/2016 |
| 1,1,1-Trichloroethane | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 54.16 | 1.66 | 01/14/2016 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 49.03 | 2.04 | 01/14/2016 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **57.0** | 50.00 | 0 | 114.0 | 57.77 | 1.38 | 01/14/2016 |
| 1,1,2-Trichloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 49.93 | 1.33 | 01/14/2016 |
| 1,1-Dichloro-2-propanone | 50.0 | | **119** | 125.0 | 0 | 95.0 | 112.5 | 5.40 | 01/14/2016 |
| 1,1-Dichloroethane | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 52.96 | 0.41 | 01/14/2016 |
| 1,1-Dichloroethene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 51.26 | 1.22 | 01/14/2016 |
| 1,1-Dichloropropene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 54.68 | 1.79 | 01/14/2016 |
| 1,2,3-Trichlorobenzene | 5.0 | | **57.9** | 50.00 | 0 | 115.9 | 55.83 | 3.69 | 01/14/2016 |
| 1,2,3-Trichloropropane | 10.0 | | **52.1** | 50.00 | 0 | 104.3 | 49.79 | 4.61 | 01/14/2016 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.6 | 49.15 | 0.69 | 01/14/2016 |
| 1,2,4-Trichlorobenzene | 5.0 | | **60.1** | 50.00 | 0 | 120.3 | 58.38 | 2.97 | 01/14/2016 |
| 1,2,4-Trimethylbenzene | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 55.02 | 0.60 | 01/14/2016 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 45.86 | 9.35 | 01/14/2016 |
| 1,2-Dibromoethane | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 49.11 | 1.74 | 01/14/2016 |
| 1,2-Dichlorobenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 52.98 | 0.41 | 01/14/2016 |
| 1,2-Dichloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 50.05 | 0.50 | 01/14/2016 |
| 1,2-Dichloropropane | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 50.98 | 0.04 | 01/14/2016 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 52.95 | 0.25 | 01/14/2016 |
| 1,3-Dichlorobenzene | 5.0 | | **54.9** | 50.00 | 0 | 109.7 | 54.95 | 0.16 | 01/14/2016 |
| 1,3-Dichloropropane | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 48.68 | 1.08 | 01/14/2016 |
| 1,4-Dichlorobenzene | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 54.43 | 0.13 | 01/14/2016 |
| 1-Chlorobutane | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 51.18 | 0.90 | 01/14/2016 |
| 2,2-Dichloropropane | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 53.51 | 0.41 | 01/14/2016 |
| 2-Butanone | 50.0 | | **109** | 125.0 | 0 | 87.1 | 103.2 | 5.36 | 01/14/2016 |
| 2-Chlorotoluene | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 53.61 | 0.24 | 01/14/2016 |
| 2-Hexanone | 50.0 | | **102** | 125.0 | 0 | 81.6 | 95.97 | 6.04 | 01/14/2016 |
| 2-Nitropropane | 50.0 | | **548** | 500.0 | 0 | 109.6 | 515.2 | 6.16 | 01/14/2016 |
| 4-Chlorotoluene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 54.00 | 1.08 | 01/14/2016 |
| 4-Methyl-2-pentanone | 50.0 | | **125** | 125.0 | 0 | 100.2 | 118.7 | 5.39 | 01/14/2016 |
| Acetone | 50.0 | | **116** | 125.0 | 0 | 92.5 | 110.8 | 4.28 | 01/14/2016 |
| Acetonitrile | 100 | | **535** | 500.0 | 0 | 107.0 | 497.4 | 7.28 | 01/14/2016 |
| Acrolein | 100 | | **576** | 500.0 | 0 | 115.3 | 527.5 | 8.86 | 01/14/2016 |
| Acrylonitrile | 10.0 | | **51.6** | 50.00 | 0 | 103.3 | 49.69 | 3.87 | 01/14/2016 |
| Allyl chloride | 5.0 | | **47.1** | 50.00 | 0 | 94.3 | 46.81 | 0.68 | 01/14/2016 |
| Benzene | 1.0 | | **53.3** | 50.00 | 0 | 106.7 | 53.39 | 0.09 | 01/14/2016 |
| Bromobenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 49.77 | 0.04 | 01/14/2016 |
| Bromochloromethane | 5.0 | | **48.9** | 50.00 | 0 | 97.7 | 47.57 | 2.70 | 01/14/2016 |
| Bromodichloromethane | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 50.49 | 0.85 | 01/14/2016 |
| Bromoform | 5.0 | | **56.0** | 50.00 | 0 | 112.1 | 54.18 | 3.39 | 01/14/2016 |
| Bromomethane | 10.0 | | **50.5** | 50.00 | 0 | 101.0 | 50.90 | 0.81 | 01/14/2016 |
| Carbon disulfide | 5.0 | | **50.9** | 50.00 | 0 | 101.9 | 51.28 | 0.67 | 01/14/2016 |
| Carbon tetrachloride | 5.0 | | **55.2** | 50.00 | 0 | 110.4 | 56.07 | 1.58 | 01/14/2016 |
| Chlorobenzene | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 53.27 | 0.30 | 01/14/2016 |
| Chloroethane | 10.0 | | **51.2** | 50.00 | 0 | 102.4 | 51.41 | 0.41 | 01/14/2016 |
| Chloroform | 5.0 | | **52.4** | 50.00 | 0 | 104.7 | 52.62 | 0.48 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115619** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **41.2** | 50.00 | 0 | 82.4 | 39.76 | 3.51 | 01/14/2016 |
| cis-1,2-Dichloroethene | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 49.94 | 0.62 | 01/14/2016 |
| cis-1,3-Dichloropropene | 4.0 | | **52.0** | 50.00 | 0 | 103.9 | 52.38 | 0.79 | 01/14/2016 |
| Cyclohexanone | 100 | | **495** | 500.0 | 0 | 98.9 | 441.0 | 11.43 | 01/14/2016 |
| Dibromochloromethane | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 52.07 | 1.07 | 01/14/2016 |
| Dibromomethane | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 51.70 | 1.23 | 01/14/2016 |
| Dichlorodifluoromethane | 10.0 | | **38.3** | 50.00 | 0 | 76.5 | 38.54 | 0.70 | 01/14/2016 |
| Diisopropyl ether | 5.0 | | **46.0** | 50.00 | 0 | 92.0 | 46.03 | 0.04 | 01/14/2016 |
| Ethyl ether | 5.0 | | **48.6** | 50.00 | 0 | 97.1 | 48.27 | 0.60 | 01/14/2016 |
| Ethyl methacrylate | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 49.77 | 3.14 | 01/14/2016 |
| Ethylbenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 50.14 | 0.48 | 01/14/2016 |
| Ethyl-tert-butyl ether | 5.0 | | **47.6** | 50.00 | 0 | 95.2 | 47.93 | 0.71 | 01/14/2016 |
| Hexachlorobutadiene | 5.0 | | **58.8** | 50.00 | 0 | 117.6 | 58.12 | 1.20 | 01/14/2016 |
| Hexachloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 50.70 | 0.30 | 01/14/2016 |
| Iodomethane | 10.0 | | **63.2** | 50.00 | 0 | 126.3 | 63.75 | 0.91 | 01/14/2016 |
| Isopropylbenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.7 | 50.88 | 0.02 | 01/14/2016 |
| m,p-Xylenes | 5.0 | | **107** | 100.0 | 0 | 106.7 | 106.4 | 0.36 | 01/14/2016 |
| Methacrylonitrile | 50.0 | J | **49** | 50.00 | 0 | 98.5 | 47.49 | 0.00 | 01/14/2016 |
| Methyl Methacrylate | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 47.64 | 3.91 | 01/14/2016 |
| Methyl tert-butyl ether | 2.0 | | **49.7** | 50.00 | 0 | 99.3 | 48.91 | 1.52 | 01/14/2016 |
| Methylacrylate | 10.0 | | **55.7** | 50.00 | 0 | 111.3 | 53.41 | 4.13 | 01/14/2016 |
| Methylene chloride | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 48.83 | 1.63 | 01/14/2016 |
| Naphthalene | 10.0 | | **55.0** | 50.00 | 0 | 109.9 | 51.60 | 6.32 | 01/14/2016 |
| n-Butylbenzene | 5.0 | | **55.7** | 50.00 | 0 | 111.3 | 56.04 | 0.66 | 01/14/2016 |
| n-Heptane | 20.0 | | **53.2** | 50.00 | 0 | 106.3 | 53.68 | 0.99 | 01/14/2016 |
| n-Hexane | 20.0 | | **54.7** | 50.00 | 0 | 109.4 | 56.42 | 3.08 | 01/14/2016 |
| Nitrobenzene | 100 | | **519** | 500.0 | 0 | 103.8 | 471.0 | 9.72 | 01/14/2016 |
| n-Propylbenzene | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 55.16 | 1.02 | 01/14/2016 |
| o-Xylene | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 51.67 | 1.78 | 01/14/2016 |
| Pentachloroethane | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 51.05 | 0.74 | 01/14/2016 |
| p-Isopropyltoluene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 54.00 | 1.27 | 01/14/2016 |
| Propionitrile | 50.0 | | **562** | 500.0 | 0 | 112.4 | 516.6 | 8.40 | 01/14/2016 |
| sec-Butylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 52.05 | 0.23 | 01/14/2016 |
| Styrene | 5.0 | | **53.4** | 50.00 | 0 | 106.7 | 52.50 | 1.61 | 01/14/2016 |
| tert-Amyl methyl ether | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 49.42 | 0.54 | 01/14/2016 |
| tert-Butyl alcohol | 50.0 | | **275** | 250.0 | 0 | 110.0 | 255.1 | 7.50 | 01/14/2016 |
| tert-Butylbenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 53.77 | 0.35 | 01/14/2016 |
| Tetrachloroethene | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 54.98 | 3.57 | 01/14/2016 |
| Tetrahydrofuran | 50.0 | J | **50** | 50.00 | 0 | 99.3 | 44.90 | 0.00 | 01/14/2016 |
| Toluene | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 51.66 | 0.74 | 01/14/2016 |
| trans-1,2-Dichloroethene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 52.91 | 1.45 | 01/14/2016 |
| trans-1,3-Dichloropropene | 4.0 | | **51.1** | 50.00 | 0 | 102.3 | 50.45 | 1.36 | 01/14/2016 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 47.40 | 2.05 | 01/14/2016 |
| Trichloroethene | 5.0 | | **55.4** | 50.00 | 0 | 110.8 | 56.02 | 1.13 | 01/14/2016 |
| Trichlorofluoromethane | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 53.72 | 0.50 | 01/14/2016 |
| Vinyl acetate | 50.0 | | **51.6** | 50.00 | 0 | 103.3 | 51.01 | 1.21 | 01/14/2016 |
| Vinyl chloride | 2.0 | | **46.3** | 50.00 | 0 | 92.6 | 46.04 | 0.61 | 01/14/2016 |

**Client:** SCI Engineering, Inc. **Work Order:** 16010608

**Client Project:** NGA 2015-0461.21 **Report Date:** 19-Jan-16

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115619** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **159** | 150.0 | 0 | 106.2 | 158.0 | 0.83 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.5** | 50.00 | | 97.0 | | | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.8** | 50.00 | | 99.7 | | | 01/14/2016 |
| Surr: Toluene-d8 | | | **47.2** | 50.00 | | 94.5 | | | 01/14/2016 |

**Batch 115619** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2060** | 2000 | 0 | 102.8 | 70 | 130 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.7** | 50.00 | | 95.4 | 72.2 | 131 | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.3** | 50.00 | | 98.6 | 82.1 | 116 | 01/14/2016 |
| Surr: Toluene-d8 | | | **49.4** | 50.00 | | 98.8 | 86 | 116 | 01/14/2016 |

**Batch 115619** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A160114A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2160** | 2000 | 0 | 107.8 | 2055 | 4.74 | 01/14/2016 |
| Surr: 1,2-Dichloroethane-d4 | | | **47.9** | 50.00 | | 95.8 | | | 01/14/2016 |
| Surr: 4-Bromofluorobenzene | | | **49.8** | 50.00 | | 99.5 | | | 01/14/2016 |
| Surr: Toluene-d8 | | | **49.2** | 50.00 | | 98.4 | | | 01/14/2016 |

# Receiving Check List

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 16010608
**Report Date:** 19-Jan-16

**Carrier:** Nick Harvey
**Received By:** MLA

**Completed by:** M. Kaminski
**On:** 13-Jan-16
Mary Anne Kaminski

**Reviewed by:** Elizabeth A. Hurley
**On:** 13-Jan-16
Elizabeth A. Hurley

**Pages to follow:** Chain of custody 3 Extra pages included 0

| | | | | |
|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ | Temp °C 2.02 |
| Type of thermal preservation? | None ☐ | Ice ☑ | Blue Ice ☐ | Dry Ice ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | | |
| Sample containers intact? | Yes ☑ | No ☐ | | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | | |
| All samples received within holding time? | Yes ☑ | No ☐ | | |
| Reported field parameters measured: | Field ☐ | Lab ☐ | NA ☑ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | | |

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

| | | | |
|---|---|---|---|
| Water – at least one vial per sample has zero headspace? | Yes ☑ | No ☐ | No VOA vials ☐ |
| Water - TOX containers have zero headspace? | Yes ☐ | No ☐ | No TOX containers ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | NA ☐ |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes ☐ | No ☐ | NA ☑ |

**Any No responses must be detailed below or on the COC.**

# CHAIN OF CUSTODY

pg. 1 of 3 Work order # 16010608

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☒ ICE ☐ BLUE ICE ☐ NO ICE 2.02 °C
**Preserved in:** ☐ LAB ☐ FIELD **FOR LAB USE ONLY**
**Lab Notes**
Zero headspace KF 1/13/16

**Client Comments:**
Meet MRBCA DTLs

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16010608-001 | SCI-47A(0-3) | 1-12-2016 8:45 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 002 | SCI-47B(15-20) | 8:45 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| 003 | SCI-47D(15-20) | 8:45 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| 004 | SCI-48A(0-3) | 9:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 005 | SCI-48B(15-20) | 9:25 | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| 006 | SCI-49A(0-3) | 9:45 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 007 | SCI-49B(15-20) | 10:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 008 | SCI-50A(0-3) | 10:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 009 | SCI-50B(15-20) | 10:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 010 | SCI-51A(0-3) | 10:40 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

Courier

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 1-12-2016 16:20 | | 1/12/16 1620 |
| | 1/12/16 1650 | | 1/12/16 1650 |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

# CHAIN OF CUSTODY

pg. 2 of 3 Work order # 16010608

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☒ ICE ☐ BLUE ICE ☐ NO ICE 2.02 °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**

**Client Comments:**
Meet MRBCA DTLs

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16010608-011 | SCI-51B(15-20) | 1-12-2016 11:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 012 | SCI-52A(0-3) | 11:45 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 013 | SCI-52B(10-15 | 12:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 014 | SCI-53A(0-3) | 12:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 015 | SCI-53B(15-20) | 12:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 016 | SCI-54A(0-3) | 12:45 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 017 | SCI-54B(15-20) | 13:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 018 | SCI-55A(0-3) | 13:30 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 019 | SCI-55B(15-20 | 13:45 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 020 | SCI-57A(0-3) | 14:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 1-12-2016 16:20 | | 1/12/16 1620 |
| | 1/12/16 1650 | | 1/12/16 1650 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

# CHAIN OF CUSTODY

pg. 3 of 3 Work order # 16010608

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☒ ICE ☐ BLUE ICE ☐ NO ICE 2.02 °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**

**Client Comments:**
Meet MRBCA OTLs

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16010608-021 | SCI-57B (15-20) | 1-12-2016 14:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 022 | SCI-58A (0-3) | 14:35 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 023 | SCI-58B (10-15) | 15:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 024 | SCI-59A (0-3) | 15:15 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 025 | SCI-59B (15-20) | 15:35 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 026 | TB-7 | 8:00 | | | | | | | | 2 | | X | | | | | | | | X |
| 027 | TB-8 | 8:00 | | | | | | | | 2 | | X | | | | | | | | X |
| 028 | GB-5 | 16:00 | | | | | | | | 2 | | X | | | | | | | | X |
| 029 | SCI-54D (15-20) | 13:00 | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 1-12-2016 16:20 | | 1/12/16 1620 |
| | 1/12/16 1650 | | 1/12/16 1650 |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

December 28, 2015

Ben Butterfield
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301
TEL: (618) 206-3028
FAX: (636) 949-8269

**RE:** NGA 2015-0461.21 **WorkOrder:** 15121421

Dear Ben Butterfield:

TEKLAB, INC received 20 samples on 12/18/2015 5:18:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

# Report Contents

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

**This reporting package includes the following:**


| | |
|---|---|
| Cover Letter | 1 |
| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 4 |
| Laboratory Results | 5 |
| Quality Control Results | 65 |
| Receiving Check List | 116 |
| Chain of Custody | Appended |

# Definitions

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

| Abbr | Definition |
|---|---|
| CCV | Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration. |
| DF | Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors. |
| DNI | Did not ignite |
| DUP | Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. |
| ICV | Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated. |
| IDPH | IL Dept. of Public Health |
| LCS | Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request). |
| LCSD | Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MBLK | Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses. |
| MDL | Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. |
| MS | Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MSD | Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MW | Molecular weight |
| ND | Not Detected at the Reporting Limit |
| NELAP | NELAP Accredited |
| PQL | Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request). |
| RL | The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL. |
| RPD | Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request). |
| SPK | The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. |
| Surr | Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. |
| TIC | Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET" |
| TNTC | Too numerous to count ( > 200 CFU ) |

## Qualifiers

| | | | |
|---|---|---|---|
| # - | Unknown hydrocarbon | B - | Analyte detected in associated Method Blank |
| E - | Value above quantitation range | H - | Holding times exceeded |
| I - | Associated internal standard was outside method criteria | J - | Analyte detected below quantitation limits |
| M - | Manual Integration used to determine area response | ND - | Not Detected at the Reporting Limit |
| R - | RPD outside accepted recovery limits | S - | Spike Recovery outside recovery limits |
| T - | TIC(Tentatively identified compound) | X - | Value exceeds Maximum Contaminant Level |

# Case Narrative

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421

**Report Date:** 28-Dec-15

**Cooler Receipt Temp:** 5.22 °C

## Locations and Accreditations

| | Collinsville | Springfield | Kansas City | Collinsville Air |
|---|---|---|---|---|
| Address | 5445 Horseshoe Lake Road | 3920 Pintail Dr | 8421 Nieman Road | 5445 Horseshoe Lake Road |
| | Collinsville, IL 62234-7425 | Springfield, IL 62711-9415 | Lenexa, KS 66214 | Collinsville, IL 62234-7425 |
| Phone | (618) 344-1004 | (217) 698-1004 | (913) 541-1998 | (618) 344-1004 |
| Fax | (618) 344-1005 | (217) 698-1005 | (913) 541-1998 | (618) 344-1005 |
| Email | jhriley@teklabinc.com | KKlostermann@teklabinc.com | dthompson@teklabinc.com | EHurley@teklabinc.com |

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|---|---|---|---|---|---|
| Illinois | IEPA | 100226 | NELAP | 1/31/2017 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 1/31/2016 | Collinsville |
| Louisiana | LDEQ | 166493 | NELAP | 6/30/2016 | Collinsville |
| Louisiana | LDEQ | 166578 | NELAP | 6/30/2016 | Collinsville |
| Texas | TCEQ | T104704515-12-1 | NELAP | 7/31/2016 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2016 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2017 | Collinsville |
| Kentucky | KDEP | 98006 | | 12/31/2015 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2016 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2017 | Collinsville |
| Oklahoma | ODEQ | 9978 | | 8/31/2016 | Collinsville |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-001
**Client Sample ID:** EB-1
**Matrix:** AQUEOUS
**Collection Date:** 12/18/2015 8:05

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-001
**Client Sample ID:** EB-1
**Matrix:** AQUEOUS
**Collection Date:** 12/18/2015 8:05

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-001
**Client Sample ID:** EB-1
**Matrix:** AQUEOUS
**Collection Date:** 12/18/2015 8:05

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 12:39 | 115150 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **87.4** | %REC | 1 | 12/21/2015 12:39 | 115150 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **95.2** | %REC | 1 | 12/21/2015 12:39 | 115150 |
| Surr: Toluene-d8 | | 84.3-114 | | **89.6** | %REC | 1 | 12/21/2015 12:39 | 115150 |

*LCS and LCSD recovered outside upper QC limits for acetone. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-002
**Client Sample ID:** TB-1
**Matrix:** TRIP BLANK
**Collection Date:** 12/18/2015 17:18

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-002
**Client Sample ID:** TB-1
**Matrix:** TRIP BLANK
**Collection Date:** 12/18/2015 17:18

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Chloroform | NELAP | 5.0 | J | **1.0** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-002
**Client Sample ID:** TB-1
**Matrix:** TRIP BLANK
**Collection Date:** 12/18/2015 17:18

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:06 | 115150 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **84.6** | %REC | 1 | 12/21/2015 13:06 | 115150 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **94.6** | %REC | 1 | 12/21/2015 13:06 | 115150 |
| Surr: Toluene-d8 | | 84.3-114 | | **89.0** | %REC | 1 | 12/21/2015 13:06 | 115150 |

*LCS and LCSD recovered outside upper QC limits for acetone. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-003
**Client Sample ID:** SCI-10A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.7** | % | 1 | 12/22/2015 21:58 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **7.16** | mg/Kg-dry | 1 | 12/23/2015 9:22 | 115162 |
| Barium | NELAP | 0.24 | | **164** | mg/Kg-dry | 1 | 12/23/2015 9:22 | 115162 |
| Cadmium | NELAP | 0.19 | | **0.27** | mg/Kg-dry | 1 | 12/23/2015 9:22 | 115162 |
| Chromium | NELAP | 0.48 | | **18.3** | mg/Kg-dry | 1 | 12/23/2015 9:22 | 115162 |
| Lead | NELAP | 1.44 | | **9.32** | mg/Kg-dry | 1 | 12/23/2015 9:22 | 115162 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/23/2015 9:22 | 115162 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/23/2015 9:22 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.023** | mg/Kg-dry | 1 | 12/23/2015 11:26 | 115165 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:39 | 115116 |
| Aroclor 1221 | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:39 | 115116 |
| Aroclor 1232 | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:39 | 115116 |
| Aroclor 1242 | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:39 | 115116 |
| Aroclor 1248 | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:39 | 115116 |
| Aroclor 1254 | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:39 | 115116 |
| Aroclor 1260 | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:39 | 115116 |
| Surr: Decachlorobiphenyl | | 5-156 | | **90.4** | %REC | 1 | 12/22/2015 16:39 | 115116 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **96.8** | %REC | 1 | 12/22/2015 16:39 | 115116 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Chrysene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Fluorene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Pyrene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| TPH-DRO (C10 - C21) | | 14.7 | J | **9.6** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| TPH-ORO (C21 - C35) | | 14.7 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 13:48 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **81.1** | %REC | 1 | 12/21/2015 13:48 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **73.0** | %REC | 1 | 12/21/2015 13:48 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.4** | %REC | 1 | 12/21/2015 13:48 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,1-Dichloro-2-propanone | | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-003 **Client Sample ID:** SCI-10A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2,3-Trichloropropane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2,3-Trimethylbenzene | | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2-Dibromoethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2-Dichloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 2-Butanone | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 2-Hexanone | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 2-Nitropropane | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| 4-Methyl-2-pentanone | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Acetone | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Acetonitrile | NELAP | 89.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Acrolein | NELAP | 89.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Acrylonitrile | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Bromomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Chloroethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Chloromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Cyclohexanone | | 89.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Dichlorodifluoromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-003 **Client Sample ID:** SCI-10A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Ethyl methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Ethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Ethyl-tert-butyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Hexachlorobutadiene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Hexachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Iodomethane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Isopropylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| m,p-Xylenes | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Methacrylonitrile | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Methylacrylate | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Naphthalene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| n-Heptane | | 18.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| n-Hexane | | 18.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Nitrobenzene | NELAP | 89.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Propionitrile | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| tert-Butyl alcohol | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Tetrahydrofuran | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| TPH - GRO (C6 - C10) | | 449 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Vinyl acetate | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:28 | 115107 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **97.8** | %REC | 1 | 12/21/2015 14:28 | 115107 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.4** | %REC | 1 | 12/21/2015 14:28 | 115107 |
| Surr: Toluene-d8 | | 86-116 | | **99.3** | %REC | 1 | 12/21/2015 14:28 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-004
**Client Sample ID:** SCI-10B (12-16)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **22.7** | % | 1 | 12/22/2015 21:58 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **12.6** | mg/Kg-dry | 1 | 12/23/2015 9:26 | 115162 |
| Barium | NELAP | 0.24 | | **138** | mg/Kg-dry | 1 | 12/23/2015 9:26 | 115162 |
| Cadmium | NELAP | 0.19 | | **0.43** | mg/Kg-dry | 1 | 12/23/2015 9:26 | 115162 |
| Chromium | NELAP | 0.48 | | **59.6** | mg/Kg-dry | 1 | 12/23/2015 9:26 | 115162 |
| Lead | NELAP | 1.44 | | **15.5** | mg/Kg-dry | 1 | 12/23/2015 9:26 | 115162 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/23/2015 9:26 | 115162 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/23/2015 9:26 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.048** | mg/Kg-dry | 1 | 12/23/2015 11:29 | 115165 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:56 | 115116 |
| Aroclor 1221 | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:56 | 115116 |
| Aroclor 1232 | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:56 | 115116 |
| Aroclor 1242 | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:56 | 115116 |
| Aroclor 1248 | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:56 | 115116 |
| Aroclor 1254 | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:56 | 115116 |
| Aroclor 1260 | NELAP | 48.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:56 | 115116 |
| Surr: Decachlorobiphenyl | | 5-156 | | **99.6** | %REC | 1 | 12/22/2015 16:56 | 115116 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **101.5** | %REC | 1 | 12/22/2015 16:56 | 115116 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Anthracene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Chrysene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Fluoranthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Fluorene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Pyrene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| TPH-DRO (C10 - C21) | | 15.4 | J | **9.5** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| TPH-ORO (C21 - C35) | | 15.4 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:19 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **76.3** | %REC | 1 | 12/21/2015 14:19 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.6** | %REC | 1 | 12/21/2015 14:19 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **90.9** | %REC | 1 | 12/21/2015 14:19 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,1-Dichloro-2-propanone | | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-004 **Client Sample ID:** SCI-10B (12-16)

**Matrix:** SOLID **Collection Date:** 12/18/2015 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2,3-Trichloropropane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2,3-Trimethylbenzene | | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2-Dibromoethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2-Dichloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 2-Butanone | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 2-Hexanone | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 2-Nitropropane | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| 4-Methyl-2-pentanone | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Acetone | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Acetonitrile | NELAP | 93.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Acrolein | NELAP | 93.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Acrylonitrile | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Bromomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Chloroethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Chloromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Cyclohexanone | | 93.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Dichlorodifluoromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121421-004
**Matrix:** SOLID

**Work Order:** 15121421
**Report Date:** 28-Dec-15
**Client Sample ID:** SCI-10B (12-16)
**Collection Date:** 12/18/2015 8:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Ethyl methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Ethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Ethyl-tert-butyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Hexachlorobutadiene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Hexachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Iodomethane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Isopropylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| m,p-Xylenes | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Methacrylonitrile | NELAP | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Methylacrylate | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Methylene chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Naphthalene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| n-Heptane | | 18.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| n-Hexane | | 18.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Nitrobenzene | NELAP | 93.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Propionitrile | NELAP | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| tert-Butyl alcohol | NELAP | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Tetrahydrofuran | NELAP | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| TPH - GRO (C6 - C10) | | 467 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Vinyl acetate | NELAP | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:54 | 115107 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **112.6** | %REC | 1 | 12/21/2015 14:54 | 115107 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.2** | %REC | 1 | 12/21/2015 14:54 | 115107 |
| Surr: Toluene-d8 | | 86-116 | | **96.7** | %REC | 1 | 12/21/2015 14:54 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-005
**Client Sample ID:** SCI-11A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.6** | % | 1 | 12/22/2015 21:59 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **6.57** | mg/Kg-dry | 1 | 12/23/2015 9:29 | 115162 |
| Barium | NELAP | 0.24 | | **145** | mg/Kg-dry | 1 | 12/23/2015 9:29 | 115162 |
| Cadmium | NELAP | 0.19 | | **0.30** | mg/Kg-dry | 1 | 12/23/2015 9:29 | 115162 |
| Chromium | NELAP | 0.47 | | **19.1** | mg/Kg-dry | 1 | 12/23/2015 9:29 | 115162 |
| Lead | NELAP | 1.42 | | **15.5** | mg/Kg-dry | 1 | 12/23/2015 9:29 | 115162 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/23/2015 9:29 | 115162 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 12/23/2015 9:29 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.062** | mg/Kg-dry | 1 | 12/23/2015 11:35 | 115165 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:13 | 115116 |
| Aroclor 1221 | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:13 | 115116 |
| Aroclor 1232 | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:13 | 115116 |
| Aroclor 1242 | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:13 | 115116 |
| Aroclor 1248 | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:13 | 115116 |
| Aroclor 1254 | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:13 | 115116 |
| Aroclor 1260 | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:13 | 115116 |
| Surr: Decachlorobiphenyl | | 5-156 | | **89.8** | %REC | 1 | 12/22/2015 17:13 | 115116 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **102.9** | %REC | 1 | 12/22/2015 17:13 | 115116 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Chrysene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Fluorene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Pyrene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| TPH-DRO (C10 - C21) | | 14.8 | J | **9.4** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| TPH-ORO (C21 - C35) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:39 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **74.3** | %REC | 1 | 12/24/2015 2:39 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.7** | %REC | 1 | 12/24/2015 2:39 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **89.3** | %REC | 1 | 12/24/2015 2:39 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,1-Dichloro-2-propanone | | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-005 **Client Sample ID:** SCI-11A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2,3-Trimethylbenzene | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2-Dibromoethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2-Dichloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 2-Butanone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 2-Hexanone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 2-Nitropropane | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| 4-Methyl-2-pentanone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Acetone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Acetonitrile | NELAP | 92.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Acrolein | NELAP | 92.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Cyclohexanone | | 92.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121421-005
**Matrix:** SOLID

**Work Order:** 15121421
**Report Date:** 28-Dec-15
**Client Sample ID:** SCI-11A (0-3)
**Collection Date:** 12/18/2015 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Ethyl methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Ethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Ethyl-tert-butyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Hexachlorobutadiene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Hexachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Iodomethane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Isopropylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| m,p-Xylenes | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Methacrylonitrile | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| n-Heptane | | 18.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| n-Hexane | | 18.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Nitrobenzene | NELAP | 92.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Propionitrile | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| tert-Butyl alcohol | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Tetrahydrofuran | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| TPH - GRO (C6 - C10) | | 461 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Vinyl acetate | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:20 | 115107 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **99.0** | %REC | 1 | 12/21/2015 15:20 | 115107 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.9** | %REC | 1 | 12/21/2015 15:20 | 115107 |
| Surr: Toluene-d8 | | 86-116 | | **99.9** | %REC | 1 | 12/21/2015 15:20 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-006
**Client Sample ID:** SCI-11B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.2** | % | 1 | 12/22/2015 22:00 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **8.08** | mg/Kg-dry | 1 | 12/23/2015 9:33 | 115162 |
| Barium | NELAP | 0.24 | | **103** | mg/Kg-dry | 1 | 12/23/2015 9:33 | 115162 |
| Cadmium | NELAP | 0.19 | | **0.38** | mg/Kg-dry | 1 | 12/23/2015 9:33 | 115162 |
| Chromium | NELAP | 0.48 | | **43.4** | mg/Kg-dry | 1 | 12/23/2015 9:33 | 115162 |
| Lead | NELAP | 1.44 | | **15.5** | mg/Kg-dry | 1 | 12/23/2015 9:33 | 115162 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/23/2015 9:33 | 115162 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/23/2015 9:33 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.034** | mg/Kg-dry | 1 | 12/23/2015 11:38 | 115165 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:30 | 115116 |
| Aroclor 1221 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:30 | 115116 |
| Aroclor 1232 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:30 | 115116 |
| Aroclor 1242 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:30 | 115116 |
| Aroclor 1248 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:30 | 115116 |
| Aroclor 1254 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:30 | 115116 |
| Aroclor 1260 | NELAP | 45.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:30 | 115116 |
| Surr: Decachlorobiphenyl | | 5-156 | | **103.5** | %REC | 1 | 12/22/2015 17:30 | 115116 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **94.0** | %REC | 1 | 12/22/2015 17:30 | 115116 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Chrysene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Fluoranthene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Fluorene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Pyrene | NELAP | 0.0416 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| TPH-DRO (C10 - C21) | | 14.7 | J | **8.6** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| TPH-ORO (C21 - C35) | | 14.7 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 14:49 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **70.7** | %REC | 1 | 12/21/2015 14:49 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **65.2** | %REC | 1 | 12/21/2015 14:49 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **86.1** | %REC | 1 | 12/21/2015 14:49 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,1-Dichloro-2-propanone | | 46.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-006 **Client Sample ID:** SCI-11B (16-20)

**Matrix:** SOLID **Collection Date:** 12/18/2015 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2,3-Trichloropropane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2,3-Trimethylbenzene | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2-Dibromoethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2-Dichloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 2-Butanone | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 2-Hexanone | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 2-Nitropropane | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| 4-Methyl-2-pentanone | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Acetone | NELAP | 46.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Acetonitrile | NELAP | 92.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Acrolein | NELAP | 92.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Acrylonitrile | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Bromomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Chloroethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Chloromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Cyclohexanone | | 92.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Dichlorodifluoromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121421-006
**Matrix:** SOLID

**Work Order:** 15121421
**Report Date:** 28-Dec-15
**Client Sample ID:** SCI-11B (16-20)
**Collection Date:** 12/18/2015 10:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Ethyl methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Ethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Ethyl-tert-butyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Hexachlorobutadiene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Hexachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Iodomethane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Isopropylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| m,p-Xylenes | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Methacrylonitrile | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Methylacrylate | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Naphthalene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| n-Heptane | | 18.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| n-Hexane | | 18.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Nitrobenzene | NELAP | 92.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Propionitrile | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| tert-Butyl alcohol | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Tetrahydrofuran | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| TPH - GRO (C6 - C10) | | 463 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Vinyl acetate | NELAP | 46.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:46 | 115107 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **101.3** | %REC | 1 | 12/21/2015 15:46 | 115107 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **99.1** | %REC | 1 | 12/21/2015 15:46 | 115107 |
| Surr: Toluene-d8 | | 86-116 | | **99.4** | %REC | 1 | 12/21/2015 15:46 | 115107 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-007
**Client Sample ID:** SCI-12A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.4** | % | 1 | 12/22/2015 22:00 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **9.48** | mg/Kg-dry | 1 | 12/23/2015 9:37 | 115162 |
| Barium | NELAP | 0.25 | | **253** | mg/Kg-dry | 1 | 12/23/2015 9:37 | 115162 |
| Cadmium | NELAP | 0.20 | | **0.47** | mg/Kg-dry | 1 | 12/23/2015 9:37 | 115162 |
| Chromium | NELAP | 0.50 | | **19.0** | mg/Kg-dry | 1 | 12/23/2015 9:37 | 115162 |
| Lead | NELAP | 1.50 | | **54.8** | mg/Kg-dry | 1 | 12/23/2015 9:37 | 115162 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/23/2015 9:37 | 115162 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 12/23/2015 9:37 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.034** | mg/Kg-dry | 1 | 12/23/2015 11:40 | 115165 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 46.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:47 | 115116 |
| Aroclor 1221 | NELAP | 46.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:47 | 115116 |
| Aroclor 1232 | NELAP | 46.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:47 | 115116 |
| Aroclor 1242 | NELAP | 46.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:47 | 115116 |
| Aroclor 1248 | NELAP | 46.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:47 | 115116 |
| Aroclor 1254 | NELAP | 46.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:47 | 115116 |
| Aroclor 1260 | NELAP | 46.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:47 | 115116 |
| Surr: Decachlorobiphenyl | | 5-156 | | **102.8** | %REC | 1 | 12/22/2015 17:47 | 115116 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **99.5** | %REC | 1 | 12/22/2015 17:47 | 115116 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0418 | J | **0.030** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0418 | J | **0.025** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0418 | J | **0.036** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Chrysene | NELAP | 0.0418 | J | **0.029** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Fluoranthene | NELAP | 0.0418 | | **0.0619** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Fluorene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Pyrene | NELAP | 0.0418 | | **0.0525** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| TPH-DRO (C10 - C21) | | 14.8 | J | **8.9** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| TPH-ORO (C21 - C35) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:19 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **74.9** | %REC | 1 | 12/21/2015 15:19 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **69.0** | %REC | 1 | 12/21/2015 15:19 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **86.7** | %REC | 1 | 12/21/2015 15:19 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,1-Dichloro-2-propanone | | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-007 **Client Sample ID:** SCI-12A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2,3-Trichloropropane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2,3-Trimethylbenzene | | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2-Dibromoethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2-Dichloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 2-Butanone | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 2-Hexanone | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 2-Nitropropane | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| 4-Methyl-2-pentanone | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Acetone | NELAP | 44.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Acetonitrile | NELAP | 89.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Acrolein | NELAP | 89.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Acrylonitrile | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Bromomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Chloroethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Chloromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Cyclohexanone | | 89.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Dichlorodifluoromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-007 **Client Sample ID:** SCI-12A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Ethyl methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Ethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Ethyl-tert-butyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Hexachlorobutadiene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Hexachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Iodomethane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Isopropylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| m,p-Xylenes | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Methacrylonitrile | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Methylacrylate | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Naphthalene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| n-Heptane | | 17.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| n-Hexane | | 17.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Nitrobenzene | NELAP | 89.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Propionitrile | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| tert-Butyl alcohol | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Tetrahydrofuran | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| TPH - GRO (C6 - C10) | | 449 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Vinyl acetate | NELAP | 44.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:12 | 115107 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **106.3** | %REC | 1 | 12/21/2015 16:12 | 115107 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.0** | %REC | 1 | 12/21/2015 16:12 | 115107 |
| Surr: Toluene-d8 | | 86-116 | | **98.6** | %REC | 1 | 12/21/2015 16:12 | 115107 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-008
**Client Sample ID:** SCI-12B (12-16)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.5** | % | 1 | 12/22/2015 22:00 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **4.75** | mg/Kg-dry | 1 | 12/23/2015 9:40 | 115162 |
| Barium | NELAP | 0.23 | | **84.2** | mg/Kg-dry | 1 | 12/23/2015 9:40 | 115162 |
| Cadmium | NELAP | 0.18 | | **0.18** | mg/Kg-dry | 1 | 12/23/2015 9:40 | 115162 |
| Chromium | NELAP | 0.45 | | **16.7** | mg/Kg-dry | 1 | 12/23/2015 9:40 | 115162 |
| Lead | NELAP | 1.36 | | **9.56** | mg/Kg-dry | 1 | 12/23/2015 9:40 | 115162 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 12/23/2015 9:40 | 115162 |
| Silver | NELAP | 0.45 | | **< 0.45** | mg/Kg-dry | 1 | 12/23/2015 9:40 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.023** | mg/Kg-dry | 1 | 12/23/2015 11:42 | 115165 |
| **SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD** | | | | | | | | |
| Aroclor 1016 | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:04 | 115116 |
| Aroclor 1221 | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:04 | 115116 |
| Aroclor 1232 | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:04 | 115116 |
| Aroclor 1242 | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:04 | 115116 |
| Aroclor 1248 | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:04 | 115116 |
| Aroclor 1254 | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:04 | 115116 |
| Aroclor 1260 | NELAP | 44.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:04 | 115116 |
| Surr: Decachlorobiphenyl | | 5-156 | | **96.0** | %REC | 1 | 12/22/2015 18:04 | 115116 |
| Surr: Tetrachloro-meta-xylene | | 7.35-123 | | **97.3** | %REC | 1 | 12/22/2015 18:04 | 115116 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Anthracene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Chrysene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Fluoranthene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Fluorene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Pyrene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| TPH-DRO (C10 - C21) | | 14.3 | J | **8.4** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| TPH-ORO (C21 - C35) | | 14.3 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 15:49 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **73.0** | %REC | 1 | 12/21/2015 15:49 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **67.6** | %REC | 1 | 12/21/2015 15:49 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **84.6** | %REC | 1 | 12/21/2015 15:49 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,1,1-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,1,2-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,1-Dichloro-2-propanone | | 41.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,1-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,1-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-008 **Client Sample ID:** SCI-12B (12-16)

**Matrix:** SOLID **Collection Date:** 12/18/2015 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1-Dichloropropene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2,3-Trichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2,3-Trichloropropane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2,3-Trimethylbenzene | | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2,4-Trichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2,4-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2-Dibromoethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2-Dichloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,3,5-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,3-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,3-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1,4-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 1-Chlorobutane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 2,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 2-Butanone | NELAP | 41.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 2-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 2-Hexanone | NELAP | 41.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 2-Nitropropane | NELAP | 41.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 4-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| 4-Methyl-2-pentanone | NELAP | 41.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Acetone | NELAP | 41.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Acetonitrile | NELAP | 83.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Acrolein | NELAP | 83.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Acrylonitrile | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Allyl chloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Bromobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Bromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Bromodichloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Bromoform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Bromomethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Carbon disulfide | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Carbon tetrachloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Chlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Chloroethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Chloroform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Chloromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| cis-1,2-Dichloroethene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| cis-1,3-Dichloropropene | NELAP | 3.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Cyclohexanone | | 83.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Dibromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Dibromomethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Dichlorodifluoromethane | NELAP | 8.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Diisopropyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121421-008
**Matrix:** SOLID

**Work Order:** 15121421
**Report Date:** 28-Dec-15
**Client Sample ID:** SCI-12B (12-16)
**Collection Date:** 12/18/2015 9:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Ethyl ether | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Ethyl methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Ethylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Ethyl-tert-butyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Hexachlorobutadiene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Hexachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Iodomethane | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Isopropylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| m,p-Xylenes | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Methacrylonitrile | NELAP | 41.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Methyl Methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Methylacrylate | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Methylene chloride | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Naphthalene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| n-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| n-Heptane | | 16.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| n-Hexane | | 16.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Nitrobenzene | NELAP | 83.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| n-Propylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| o-Xylene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Pentachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| p-Isopropyltoluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Propionitrile | NELAP | 41.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| sec-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Styrene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| tert-Amyl methyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| tert-Butyl alcohol | NELAP | 41.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| tert-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Tetrachloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Tetrahydrofuran | NELAP | 41.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Toluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| TPH - GRO (C6 - C10) | | 417 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| trans-1,2-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| trans-1,3-Dichloropropene | NELAP | 3.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Trichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Trichlorofluoromethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Vinyl acetate | NELAP | 41.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Xylenes, Total | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:38 | 115107 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **111.6** | %REC | 1 | 12/21/2015 16:38 | 115107 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.9** | %REC | 1 | 12/21/2015 16:38 | 115107 |
| Surr: Toluene-d8 | | 86-116 | | **97.2** | %REC | 1 | 12/21/2015 16:38 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-009
**Client Sample ID:** SCI-13A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.3** | % | 1 | 12/22/2015 22:01 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **8.16** | mg/Kg-dry | 1 | 12/23/2015 9:44 | 115162 |
| Barium | NELAP | 0.24 | | **179** | mg/Kg-dry | 1 | 12/23/2015 9:44 | 115162 |
| Cadmium | NELAP | 0.19 | | **0.25** | mg/Kg-dry | 1 | 12/23/2015 9:44 | 115162 |
| Chromium | NELAP | 0.47 | | **17.4** | mg/Kg-dry | 1 | 12/23/2015 9:44 | 115162 |
| Lead | NELAP | 1.42 | | **21.6** | mg/Kg-dry | 1 | 12/23/2015 9:44 | 115162 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/23/2015 9:44 | 115162 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 12/23/2015 9:44 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.038** | mg/Kg-dry | 1 | 12/23/2015 11:44 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Anthracene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0411 | J | **0.025** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0411 | J | **0.024** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Chrysene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Fluoranthene | NELAP | 0.0411 | | **0.0419** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Fluorene | NELAP | 0.0411 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Pyrene | NELAP | 0.0411 | J | **0.039** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| TPH-DRO (C10 - C21) | | 14.5 | J | **9.3** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| TPH-ORO (C21 - C35) | | 14.5 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 2:09 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **75.5** | %REC | 1 | 12/24/2015 2:09 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.8** | %REC | 1 | 12/24/2015 2:09 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **90.5** | %REC | 1 | 12/24/2015 2:09 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,1-Dichloro-2-propanone | | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,2,3-Trichloropropane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-009 **Client Sample ID:** SCI-13A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 2-Butanone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 2-Hexanone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 2-Nitropropane | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| 4-Methyl-2-pentanone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Acetone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Acetonitrile | NELAP | 93.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Acrolein | NELAP | 93.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Acrylonitrile | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Bromomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Chloroethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Chloromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Cyclohexanone | | 93.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Dichlorodifluoromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Iodomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Methacrylonitrile | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-009
**Client Sample ID:** SCI-13A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Methylacrylate | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Methylene chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Naphthalene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| n-Heptane | | 18.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| n-Hexane | | 18.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Nitrobenzene | NELAP | 93.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Propionitrile | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| tert-Butyl alcohol | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Tetrahydrofuran | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| TPH - GRO (C6 - C10) | | 469 | J | **190** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Vinyl acetate | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:04 | 115107 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **105.6** | %REC | 1 | 12/21/2015 17:04 | 115107 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **109.6** | %REC | 1 | 12/21/2015 17:04 | 115107 |
| Surr: Toluene-d8 | | 86-116 | | **104.1** | %REC | 1 | 12/21/2015 17:04 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-010
**Client Sample ID:** SCI-13B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.7** | % | 1 | 12/22/2015 22:01 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **11.2** | mg/Kg-dry | 1 | 12/23/2015 10:20 | 115162 |
| Barium | NELAP | 0.25 | | **105** | mg/Kg-dry | 1 | 12/23/2015 10:20 | 115162 |
| Cadmium | NELAP | 0.20 | | **0.25** | mg/Kg-dry | 1 | 12/23/2015 10:20 | 115162 |
| Chromium | NELAP | 0.49 | | **29.9** | mg/Kg-dry | 1 | 12/23/2015 10:20 | 115162 |
| Lead | NELAP | 1.47 | | **13.5** | mg/Kg-dry | 1 | 12/23/2015 10:20 | 115162 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 12/23/2015 10:20 | 115162 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 12/23/2015 10:20 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.045** | mg/Kg-dry | 1 | 12/23/2015 11:47 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Chrysene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Fluoranthene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Fluorene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Pyrene | NELAP | 0.0418 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| TPH-DRO (C10 - C21) | | 14.7 | J | **8.6** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| TPH-ORO (C21 - C35) | | 14.7 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:19 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **72.9** | %REC | 1 | 12/21/2015 16:19 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.4** | %REC | 1 | 12/21/2015 16:19 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **89.3** | %REC | 1 | 12/21/2015 16:19 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,1-Dichloro-2-propanone | | 45.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,2,3-Trichloropropane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-010 **Client Sample ID:** SCI-13B (16-20)

**Matrix:** SOLID **Collection Date:** 12/18/2015 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 2-Butanone | NELAP | 45.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 2-Hexanone | NELAP | 45.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 2-Nitropropane | NELAP | 45.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| 4-Methyl-2-pentanone | NELAP | 45.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Acetone | NELAP | 45.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Acetonitrile | NELAP | 91.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Acrolein | NELAP | 91.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Acrylonitrile | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Bromomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Chloroethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Chloromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Cyclohexanone | | 91.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Dichlorodifluoromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Iodomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Methacrylonitrile | NELAP | 45.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-010
**Client Sample ID:** SCI-13B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Methylacrylate | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Naphthalene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| n-Heptane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| n-Hexane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Nitrobenzene | NELAP | 91.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Propionitrile | NELAP | 45.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| tert-Butyl alcohol | NELAP | 45.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Tetrahydrofuran | NELAP | 45.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| TPH - GRO (C6 - C10) | | 456 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Vinyl acetate | NELAP | 45.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:30 | 115107 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.4** | %REC | 1 | 12/21/2015 17:30 | 115107 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.3** | %REC | 1 | 12/21/2015 17:30 | 115107 |
| Surr: Toluene-d8 | | 86-116 | | **99.6** | %REC | 1 | 12/21/2015 17:30 | 115107 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-011
**Client Sample ID:** SCI-13D (16-20)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.0** | % | 1 | 12/22/2015 22:02 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **9.94** | mg/Kg-dry | 1 | 12/23/2015 10:31 | 115162 |
| Barium | NELAP | 0.23 | | **121** | mg/Kg-dry | 1 | 12/23/2015 10:31 | 115162 |
| Cadmium | NELAP | 0.19 | | **0.36** | mg/Kg-dry | 1 | 12/23/2015 10:31 | 115162 |
| Chromium | NELAP | 0.46 | | **32.7** | mg/Kg-dry | 1 | 12/23/2015 10:31 | 115162 |
| Lead | NELAP | 1.39 | | **14.9** | mg/Kg-dry | 1 | 12/23/2015 10:31 | 115162 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 12/23/2015 10:31 | 115162 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 12/23/2015 10:31 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.055** | mg/Kg-dry | 1 | 12/23/2015 11:49 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Anthracene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Chrysene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Fluoranthene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Fluorene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Pyrene | NELAP | 0.0427 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| TPH-DRO (C10 - C21) | | 15.1 | J | **8.2** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| TPH-ORO (C21 - C35) | | 15.1 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 16:48 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.4** | %REC | 1 | 12/21/2015 16:48 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **67.7** | %REC | 1 | 12/21/2015 16:48 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.5** | %REC | 1 | 12/21/2015 16:48 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,1,1-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,1,2-Trichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,1-Dichloro-2-propanone | | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,1-Dichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,1-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,1-Dichloropropene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,2,3-Trichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,2,3-Trichloropropane | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,2,3-Trimethylbenzene | | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,2,4-Trichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,2,4-Trimethylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,2-Dibromoethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,2-Dichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,2-Dichloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-011 **Client Sample ID:** SCI-13D (16-20)

**Matrix:** SOLID **Collection Date:** 12/18/2015 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,3,5-Trimethylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,3-Dichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,3-Dichloropropane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1,4-Dichlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 1-Chlorobutane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 2,2-Dichloropropane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 2-Butanone | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 2-Chlorotoluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 2-Hexanone | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 2-Nitropropane | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 4-Chlorotoluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| 4-Methyl-2-pentanone | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Acetone | NELAP | 47.5 | J | **18** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Acetonitrile | NELAP | 95.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Acrolein | NELAP | 95.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Acrylonitrile | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Allyl chloride | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Benzene | NELAP | 1.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Bromobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Bromochloromethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Bromodichloromethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Bromoform | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Bromomethane | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Carbon disulfide | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Carbon tetrachloride | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Chlorobenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Chloroethane | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Chloroform | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Chloromethane | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| cis-1,2-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Cyclohexanone | | 95.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Dibromochloromethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Dibromomethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Dichlorodifluoromethane | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Diisopropyl ether | | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Ethyl ether | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Ethyl methacrylate | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Ethylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Ethyl-tert-butyl ether | | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Hexachlorobutadiene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Hexachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Iodomethane | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Isopropylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| m,p-Xylenes | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Methacrylonitrile | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-011 **Client Sample ID:** SCI-13D (16-20)

**Matrix:** SOLID **Collection Date:** 12/18/2015 11:25

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Methylacrylate | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Methylene chloride | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Naphthalene | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| n-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| n-Heptane | | 19.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| n-Hexane | | 19.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Nitrobenzene | NELAP | 95.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| n-Propylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| o-Xylene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Pentachloroethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| p-Isopropyltoluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Propionitrile | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| sec-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Styrene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| tert-Amyl methyl ether | | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| tert-Butyl alcohol | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| tert-Butylbenzene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Tetrachloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Tetrahydrofuran | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Toluene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| TPH - GRO (C6 - C10) | | 475 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| trans-1,2-Dichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Trichloroethene | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Trichlorofluoromethane | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Vinyl acetate | NELAP | 47.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Xylenes, Total | NELAP | 4.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 14:40 | 115108 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **96.8** | %REC | 1 | 12/21/2015 14:40 | 115108 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **108.8** | %REC | 1 | 12/21/2015 14:40 | 115108 |
| Surr: Toluene-d8 | | 86-116 | | **105.4** | %REC | 1 | 12/21/2015 14:40 | 115108 |

*LCS & LCSD recovered outside upper QC limits for acetone. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-012
**Client Sample ID:** SCI-14A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **15.0** | % | 1 | 12/22/2015 22:02 | R213036 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **9.93** | mg/Kg-dry | 1 | 12/23/2015 10:35 | 115162 |
| Barium | NELAP | 0.23 | | **159** | mg/Kg-dry | 1 | 12/23/2015 10:35 | 115162 |
| Cadmium | NELAP | 0.19 | | **0.39** | mg/Kg-dry | 1 | 12/23/2015 10:35 | 115162 |
| Chromium | NELAP | 0.46 | | **19.5** | mg/Kg-dry | 1 | 12/23/2015 10:35 | 115162 |
| Lead | NELAP | 1.39 | | **87.2** | mg/Kg-dry | 1 | 12/23/2015 10:35 | 115162 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 12/23/2015 10:35 | 115162 |
| Silver | NELAP | 0.46 | | **< 0.46** | mg/Kg-dry | 1 | 12/23/2015 10:35 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.127** | mg/Kg-dry | 1 | 12/23/2015 11:51 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0398 | | **0.0484** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Anthracene | NELAP | 0.0398 | | **0.103** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0398 | | **0.354** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0398 | | **0.297** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0398 | | **0.439** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0398 | | **0.157** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Chrysene | NELAP | 0.0398 | | **0.299** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0398 | J | **0.023** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Fluoranthene | NELAP | 0.0398 | | **0.736** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Fluorene | NELAP | 0.0398 | J | **0.038** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Pyrene | NELAP | 0.0398 | | **0.646** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| TPH-DRO (C10 - C21) | | 14.1 | J | **11** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| TPH-ORO (C21 - C35) | | 14.1 | | **16.8** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **77.1** | %REC | 1 | 12/24/2015 3:09 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **74.5** | %REC | 1 | 12/24/2015 3:09 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **90.3** | %REC | 1 | 12/24/2015 3:09 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,1-Dichloro-2-propanone | | 53.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,1-Dichloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,1-Dichloroethene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,1-Dichloropropene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 10.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,2,3-Trimethylbenzene | | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,2-Dibromoethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,2-Dichloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-012 **Client Sample ID:** SCI-14A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,3-Dichloropropane | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 1-Chlorobutane | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 2,2-Dichloropropane | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 2-Butanone | NELAP | 53.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 2-Chlorotoluene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 2-Hexanone | NELAP | 53.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 2-Nitropropane | NELAP | 53.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 4-Chlorotoluene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 53.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Acetone | NELAP | 53.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Acetonitrile | NELAP | 106 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Acrolein | NELAP | 106 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Acrylonitrile | NELAP | 10.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Allyl chloride | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Benzene | NELAP | 1.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Bromobenzene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Bromochloromethane | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Bromodichloromethane | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Bromoform | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Bromomethane | NELAP | 10.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Carbon disulfide | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Carbon tetrachloride | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Chlorobenzene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Chloroethane | NELAP | 10.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Chloroform | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Chloromethane | NELAP | 10.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Cyclohexanone | | 106 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Dibromochloromethane | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Dibromomethane | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Dichlorodifluoromethane | NELAP | 10.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Diisopropyl ether | | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Ethyl ether | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Ethyl methacrylate | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Ethylbenzene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Ethyl-tert-butyl ether | | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Hexachlorobutadiene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Hexachloroethane | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Iodomethane | NELAP | 10.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Isopropylbenzene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| m,p-Xylenes | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Methacrylonitrile | NELAP | 53.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-012
**Client Sample ID:** SCI-14A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Methyl tert-butyl ether | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Methylacrylate | NELAP | 10.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Methylene chloride | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Naphthalene | NELAP | 10.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| n-Butylbenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| n-Heptane | | 21.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| n-Hexane | | 21.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Nitrobenzene | NELAP | 106 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| n-Propylbenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| o-Xylene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Pentachloroethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| p-Isopropyltoluene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Propionitrile | NELAP | 53.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| sec-Butylbenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Styrene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| tert-Amyl methyl ether | | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| tert-Butyl alcohol | NELAP | 53.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| tert-Butylbenzene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Tetrachloroethene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Tetrahydrofuran | NELAP | 53.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Toluene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| TPH - GRO (C6 - C10) | | 531 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Trichloroethene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Trichlorofluoromethane | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Vinyl acetate | NELAP | 53.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Vinyl chloride | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Xylenes, Total | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:18 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.1** | %REC | 1 | 12/22/2015 13:18 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **109.6** | %REC | 1 | 12/22/2015 13:18 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **101.3** | %REC | 1 | 12/22/2015 13:18 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-013
**Client Sample ID:** SCI-14B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.2** | % | 1 | 12/23/2015 20:05 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **6.91** | mg/Kg-dry | 1 | 12/23/2015 10:39 | 115162 |
| Barium | NELAP | 0.23 | | **111** | mg/Kg-dry | 1 | 12/23/2015 10:39 | 115162 |
| Cadmium | NELAP | 0.18 | | **0.25** | mg/Kg-dry | 1 | 12/23/2015 10:39 | 115162 |
| Chromium | NELAP | 0.45 | | **19.4** | mg/Kg-dry | 1 | 12/23/2015 10:39 | 115162 |
| Lead | NELAP | 1.36 | | **8.43** | mg/Kg-dry | 1 | 12/23/2015 10:39 | 115162 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 12/23/2015 10:39 | 115162 |
| Silver | NELAP | 0.45 | | **< 0.45** | mg/Kg-dry | 1 | 12/23/2015 10:39 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.025** | mg/Kg-dry | 1 | 12/23/2015 11:53 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Chrysene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Fluorene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Pyrene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| TPH-DRO (C10 - C21) | | 15.2 | J | **9.4** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| TPH-ORO (C21 - C35) | | 15.2 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:18 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **75.2** | %REC | 1 | 12/21/2015 17:18 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.7** | %REC | 1 | 12/21/2015 17:18 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **86.7** | %REC | 1 | 12/21/2015 17:18 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,1-Dichloro-2-propanone | | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-013 **Client Sample ID:** SCI-14B (16-20)

**Matrix:** SOLID **Collection Date:** 12/18/2015 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 2-Butanone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 2-Hexanone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 2-Nitropropane | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| 4-Methyl-2-pentanone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Acetone | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Acetonitrile | NELAP | 92.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Acrolein | NELAP | 92.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Cyclohexanone | | 92.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Iodomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Methacrylonitrile | NELAP | 46.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-013
**Client Sample ID:** SCI-14B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| n-Heptane | | 18.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| n-Hexane | | 18.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Nitrobenzene | NELAP | 92.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Propionitrile | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| tert-Butyl alcohol | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Tetrahydrofuran | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| TPH - GRO (C6 - C10) | | 461 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Vinyl acetate | NELAP | 46.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 15:34 | 115108 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **102.0** | %REC | 1 | 12/21/2015 15:34 | 115108 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **103.4** | %REC | 1 | 12/21/2015 15:34 | 115108 |
| Surr: Toluene-d8 | | 86-116 | | **100.5** | %REC | 1 | 12/21/2015 15:34 | 115108 |

*LCS & LCSD recovered outside upper QC limits for acetone. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-014 **Client Sample ID:** SCI-15A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **11.0** | % | 1 | 12/23/2015 20:05 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **4.78** | mg/Kg-dry | 1 | 12/23/2015 11:09 | 115162 |
| Barium | NELAP | 0.25 | | **90.1** | mg/Kg-dry | 1 | 12/23/2015 11:09 | 115162 |
| Cadmium | NELAP | 0.20 | | **0.61** | mg/Kg-dry | 1 | 12/23/2015 11:09 | 115162 |
| Chromium | NELAP | 0.50 | | **12.9** | mg/Kg-dry | 1 | 12/23/2015 11:09 | 115162 |
| Lead | NELAP | 1.50 | | **228** | mg/Kg-dry | 1 | 12/23/2015 11:09 | 115162 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/23/2015 11:09 | 115162 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 12/23/2015 11:09 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.204** | mg/Kg-dry | 1 | 12/23/2015 12:05 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 1.02 | | **ND** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Anthracene | NELAP | 1.02 | | **ND** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Benzo(a)anthracene | NELAP | 1.02 | | **1.10** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Benzo(a)pyrene | NELAP | 1.02 | | **1.06** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Benzo(b)fluoranthene | NELAP | 1.02 | | **1.56** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Benzo(k)fluoranthene | NELAP | 1.02 | | **ND** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Chrysene | NELAP | 1.02 | J | **0.93** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 1.02 | | **ND** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Fluoranthene | NELAP | 1.02 | | **2.16** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Fluorene | NELAP | 1.02 | | **ND** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Pyrene | NELAP | 1.02 | | **1.88** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| TPH-DRO (C10 - C21) | | 359 | | **ND** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| TPH-ORO (C21 - C35) | | 359 | | **ND** | mg/Kg-dry | 5 | 12/24/2015 4:38 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **76.0** | %REC | 5 | 12/24/2015 4:38 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **68.9** | %REC | 5 | 12/24/2015 4:38 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **92.6** | %REC | 5 | 12/24/2015 4:38 | 115091 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,1-Dichloro-2-propanone | | 46.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-014 **Client Sample ID:** SCI-15A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 2-Butanone | NELAP | 46.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 2-Hexanone | NELAP | 46.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 2-Nitropropane | NELAP | 46.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| 4-Methyl-2-pentanone | NELAP | 46.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Acetone | NELAP | 46.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Acetonitrile | NELAP | 92.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Acrolein | NELAP | 92.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Cyclohexanone | | 92.3 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Iodomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-014
**Client Sample ID:** SCI-15A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 46.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| n-Heptane | | 18.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| n-Hexane | | 18.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Nitrobenzene | NELAP | 92.3 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Propionitrile | NELAP | 46.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| tert-Butyl alcohol | NELAP | 46.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Tetrahydrofuran | NELAP | 46.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| TPH - GRO (C6 - C10) | | 462 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Vinyl acetate | NELAP | 46.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:00 | 115108 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **106.2** | %REC | 1 | 12/21/2015 16:00 | 115108 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **104.3** | %REC | 1 | 12/21/2015 16:00 | 115108 |
| Surr: Toluene-d8 | | 86-116 | | **100.9** | %REC | 1 | 12/21/2015 16:00 | 115108 |

*LCS & LCSD recovered outside upper QC limits for acetone. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-015
**Client Sample ID:** SCI-15B (12-16)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **35.1** | % | 1 | 12/23/2015 20:06 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **25.3** | mg/Kg-dry | 1 | 12/23/2015 11:13 | 115162 |
| Barium | NELAP | 0.25 | | **197** | mg/Kg-dry | 1 | 12/23/2015 11:13 | 115162 |
| Cadmium | NELAP | 0.20 | | **1.62** | mg/Kg-dry | 1 | 12/23/2015 11:13 | 115162 |
| Chromium | NELAP | 0.49 | | **23.5** | mg/Kg-dry | 1 | 12/23/2015 11:13 | 115162 |
| Lead | NELAP | 1.47 | | **759** | mg/Kg-dry | 1 | 12/23/2015 11:13 | 115162 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 12/23/2015 11:13 | 115162 |
| Silver | NELAP | 0.49 | J | **0.24** | mg/Kg-dry | 1 | 12/23/2015 11:13 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.308 | | **2.05** | mg/Kg-dry | 20 | 12/23/2015 13:55 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0523 | | **0.126** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Anthracene | NELAP | 0.0523 | | **0.261** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0523 | | **0.593** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0523 | | **0.522** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0523 | | **0.671** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0523 | | **0.286** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Chrysene | NELAP | 0.0523 | | **0.492** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0523 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Fluoranthene | NELAP | 0.0523 | | **1.03** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Fluorene | NELAP | 0.0523 | | **0.118** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Pyrene | NELAP | 0.0523 | | **0.960** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| TPH-DRO (C10 - C21) | | 18.5 | | **40.6** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| TPH-ORO (C21 - C35) | | 18.5 | | **77.6** | mg/Kg-dry | 1 | 12/24/2015 4:08 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **65.5** | %REC | 1 | 12/24/2015 4:08 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **63.8** | %REC | 1 | 12/24/2015 4:08 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **79.4** | %REC | 1 | 12/24/2015 4:08 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,1,1-Trichloroethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,1,2,2-Tetrachloroethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,1,2-Trichloroethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,1-Dichloro-2-propanone | | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,1-Dichloroethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,1-Dichloroethene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,1-Dichloropropene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,2,3-Trichlorobenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,2,3-Trichloropropane | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,2,3-Trimethylbenzene | | 212 | J | **62** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,2,4-Trichlorobenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,2,4-Trimethylbenzene | NELAP | 212 | J | **120** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,2-Dibromo-3-chloropropane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,2-Dibromoethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,2-Dichlorobenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,2-Dichloroethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121421-015
**Matrix:** SOLID

**Work Order:** 15121421
**Report Date:** 28-Dec-15
**Client Sample ID:** SCI-15B (12-16)
**Collection Date:** 12/18/2015 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,3,5-Trimethylbenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,3-Dichlorobenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,3-Dichloropropane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1,4-Dichlorobenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 1-Chlorobutane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 2,2-Dichloropropane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 2-Butanone | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 2-Chlorotoluene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 2-Hexanone | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 2-Nitropropane | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 4-Chlorotoluene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| 4-Methyl-2-pentanone | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Acetone | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Acetonitrile | NELAP | 4240 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Acrolein | NELAP | 4240 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Acrylonitrile | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Allyl chloride | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Benzene | NELAP | 42.4 | J | **28** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Bromobenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Bromochloromethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Bromodichloromethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Bromoform | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Bromomethane | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Carbon disulfide | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Carbon tetrachloride | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Chlorobenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Chloroethane | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Chloroform | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Chloromethane | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| cis-1,2-Dichloroethene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| cis-1,3-Dichloropropene | NELAP | 170 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Cyclohexanone | | 4240 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Dibromochloromethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Dibromomethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Dichlorodifluoromethane | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Diisopropyl ether | | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Ethyl ether | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Ethyl methacrylate | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Ethylbenzene | NELAP | 212 | J | **46** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Ethyl-tert-butyl ether | | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Hexachlorobutadiene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Hexachloroethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Iodomethane | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Isopropylbenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| m,p-Xylenes | NELAP | 212 | J | **110** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Methacrylonitrile | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-015
**Client Sample ID:** SCI-15B (12-16)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 14:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Methyl tert-butyl ether | NELAP | 84.8 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Methylacrylate | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Methylene chloride | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Naphthalene | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| n-Butylbenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| n-Heptane | | 848 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| n-Hexane | | 848 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Nitrobenzene | NELAP | 4240 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| n-Propylbenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| o-Xylene | NELAP | 212 | J | **81** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Pentachloroethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| p-Isopropyltoluene | NELAP | 212 | J | **60** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Propionitrile | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| sec-Butylbenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Styrene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| tert-Amyl methyl ether | | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| tert-Butyl alcohol | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| tert-Butylbenzene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Tetrachloroethene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Tetrahydrofuran | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Toluene | NELAP | 212 | J | **95** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| TPH - GRO (C6 - C10) | | 21200 | J | **12000** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| trans-1,2-Dichloroethene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| trans-1,3-Dichloropropene | NELAP | 170 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| trans-1,4-Dichloro-2-butene | NELAP | 424 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Trichloroethene | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Trichlorofluoromethane | NELAP | 212 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Vinyl acetate | NELAP | 2120 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Vinyl chloride | NELAP | 84.8 | | **ND** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Xylenes, Total | NELAP | 212 | J | **190** | µg/Kg-dry | 12.5 | 12/23/2015 12:24 | 115190 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **98.8** | %REC | 12.5 | 12/23/2015 12:24 | 115190 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **96.4** | %REC | 12.5 | 12/23/2015 12:24 | 115190 |
| Surr: Toluene-d8 | | 86-116 | | **96.2** | %REC | 12.5 | 12/23/2015 12:24 | 115190 |

*Elevated reporting limit due to matrix interference.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-016 **Client Sample ID:** SCI-16A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.2** | % | 1 | 12/23/2015 20:06 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **5.69** | mg/Kg-dry | 1 | 12/23/2015 11:16 | 115162 |
| Barium | NELAP | 0.24 | | **149** | mg/Kg-dry | 1 | 12/23/2015 11:16 | 115162 |
| Cadmium | NELAP | 0.19 | | **0.30** | mg/Kg-dry | 1 | 12/23/2015 11:16 | 115162 |
| Chromium | NELAP | 0.47 | | **16.6** | mg/Kg-dry | 1 | 12/23/2015 11:16 | 115162 |
| Lead | NELAP | 1.42 | | **125** | mg/Kg-dry | 1 | 12/23/2015 11:16 | 115162 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/23/2015 11:16 | 115162 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 12/23/2015 11:16 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.065** | mg/Kg-dry | 1 | 12/23/2015 12:09 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 2.98 | | **5.03** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Anthracene | NELAP | 2.98 | | **11.7** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Benzo(a)anthracene | NELAP | 2.98 | | **26.4** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Benzo(a)pyrene | NELAP | 2.98 | | **20.7** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Benzo(b)fluoranthene | NELAP | 2.98 | | **29.2** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Benzo(k)fluoranthene | NELAP | 2.98 | | **9.54** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Chrysene | NELAP | 2.98 | | **21.7** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 2.98 | J | **1.7** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Fluoranthene | NELAP | 2.98 | | **60.9** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Fluorene | NELAP | 2.98 | | **3.57** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Pyrene | NELAP | 2.98 | | **53.4** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| TPH-DRO (C10 - C21) | | 1050 | J | **610** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| TPH-ORO (C21 - C35) | | 1050 | J | **640** | mg/Kg-dry | 25 | 12/24/2015 3:39 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.4** | %REC | 25 | 12/24/2015 3:39 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **63.9** | %REC | 25 | 12/24/2015 3:39 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.8** | %REC | 25 | 12/24/2015 3:39 | 115091 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,1-Dichloro-2-propanone | | 50.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,2,3-Trichloropropane | NELAP | 10.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-016
**Client Sample ID:** SCI-16A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,2-Dichloropropane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,3-Dichloropropane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 1-Chlorobutane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 2,2-Dichloropropane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 2-Butanone | NELAP | 50.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 2-Chlorotoluene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 2-Hexanone | NELAP | 50.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 2-Nitropropane | NELAP | 50.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 4-Chlorotoluene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| 4-Methyl-2-pentanone | NELAP | 50.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Acetone | NELAP | 50.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Acetonitrile | NELAP | 101 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Acrolein | NELAP | 101 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Acrylonitrile | NELAP | 10.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Allyl chloride | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Bromobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Bromochloromethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Bromodichloromethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Bromoform | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Bromomethane | NELAP | 10.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Carbon disulfide | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Carbon tetrachloride | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Chlorobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Chloroethane | NELAP | 10.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Chloroform | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Chloromethane | NELAP | 10.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| cis-1,3-Dichloropropene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Cyclohexanone | | 101 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Dibromochloromethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Dibromomethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Dichlorodifluoromethane | NELAP | 10.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Diisopropyl ether | | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Ethyl ether | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Ethyl methacrylate | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Ethylbenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Ethyl-tert-butyl ether | | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Hexachlorobutadiene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Hexachloroethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Iodomethane | NELAP | 10.1 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Isopropylbenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| m,p-Xylenes | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-016
**Client Sample ID:** SCI-16A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 50.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Methylacrylate | NELAP | 10.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Naphthalene | NELAP | 10.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| n-Heptane | | 20.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| n-Hexane | | 20.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Nitrobenzene | NELAP | 101 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Pentachloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Propionitrile | NELAP | 50.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Styrene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| tert-Amyl methyl ether | | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| tert-Butyl alcohol | NELAP | 50.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Tetrahydrofuran | NELAP | 50.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Toluene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| TPH - GRO (C6 - C10) | | 504 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| trans-1,3-Dichloropropene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Vinyl acetate | NELAP | 50.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 16:54 | 115108 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.3** | %REC | 1 | 12/21/2015 16:54 | 115108 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | S | **117.4** | %REC | 1 | 12/21/2015 16:54 | 115108 |
| Surr: Toluene-d8 | | 86-116 | | **104.4** | %REC | 1 | 12/21/2015 16:54 | 115108 |

*Surrogate recovery is outside QC limits due to matrix interference.*

*LCS & LCSD recovered outside upper QC limits for acetone. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-017
**Client Sample ID:** SCI-16B (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.4** | % | 1 | 12/23/2015 20:06 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **8.28** | mg/Kg-dry | 1 | 12/23/2015 11:20 | 115162 |
| Barium | NELAP | 0.24 | | **164** | mg/Kg-dry | 1 | 12/23/2015 11:20 | 115162 |
| Cadmium | NELAP | 0.19 | | **0.30** | mg/Kg-dry | 1 | 12/23/2015 11:20 | 115162 |
| Chromium | NELAP | 0.48 | | **23.6** | mg/Kg-dry | 1 | 12/23/2015 11:20 | 115162 |
| Lead | NELAP | 1.44 | | **10.7** | mg/Kg-dry | 1 | 12/23/2015 11:20 | 115162 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/23/2015 11:20 | 115162 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/23/2015 11:20 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.047** | mg/Kg-dry | 1 | 12/23/2015 12:12 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Anthracene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Chrysene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Fluoranthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Fluorene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Pyrene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| TPH-DRO (C10 - C21) | | 15.0 | J | **8.9** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| TPH-ORO (C21 - C35) | | 15.0 | | **ND** | mg/Kg-dry | 1 | 12/21/2015 17:48 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.8** | %REC | 1 | 12/21/2015 17:48 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **69.1** | %REC | 1 | 12/21/2015 17:48 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **90.9** | %REC | 1 | 12/21/2015 17:48 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,1-Dichloro-2-propanone | | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,2,3-Trichloropropane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,2-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-017 **Client Sample ID:** SCI-16B (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,3-Dichloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 1-Chlorobutane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 2,2-Dichloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 2-Butanone | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 2-Chlorotoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 2-Hexanone | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 2-Nitropropane | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 4-Chlorotoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| 4-Methyl-2-pentanone | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Acetone | NELAP | 45.4 | J | **10** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Acetonitrile | NELAP | 90.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Acrolein | NELAP | 90.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Acrylonitrile | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Allyl chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Benzene | NELAP | 0.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Bromobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Bromochloromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Bromodichloromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Bromoform | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Bromomethane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Carbon disulfide | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Carbon tetrachloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Chlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Chloroethane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Chloroform | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Chloromethane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Cyclohexanone | | 90.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Dibromochloromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Dibromomethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Dichlorodifluoromethane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Diisopropyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Ethyl ether | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Ethyl methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Ethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Ethyl-tert-butyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Hexachlorobutadiene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Hexachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Iodomethane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Isopropylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| m,p-Xylenes | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Methacrylonitrile | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-017
**Client Sample ID:** SCI-16B (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 13:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Methylacrylate | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Naphthalene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| n-Heptane | | 18.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| n-Hexane | | 18.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Nitrobenzene | NELAP | 90.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Propionitrile | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| tert-Butyl alcohol | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Tetrahydrofuran | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| TPH - GRO (C6 - C10) | | 454 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Vinyl acetate | NELAP | 45.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:21 | 115108 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **107.3** | %REC | 1 | 12/21/2015 17:21 | 115108 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **106.1** | %REC | 1 | 12/21/2015 17:21 | 115108 |
| Surr: Toluene-d8 | | 86-116 | | **100.4** | %REC | 1 | 12/21/2015 17:21 | 115108 |

*LCS & LCSD recovered outside upper QC limits for acetone. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-018 **Client Sample ID:** SCI-17A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **15.4** | % | 1 | 12/23/2015 20:06 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **2.66** | mg/Kg-dry | 1 | 12/23/2015 11:24 | 115162 |
| Barium | NELAP | 0.25 | | **27.8** | mg/Kg-dry | 1 | 12/23/2015 11:24 | 115162 |
| Cadmium | NELAP | 0.20 | | **0.55** | mg/Kg-dry | 1 | 12/23/2015 11:24 | 115162 |
| Chromium | NELAP | 0.49 | | **10.6** | mg/Kg-dry | 1 | 12/23/2015 11:24 | 115162 |
| Lead | NELAP | 1.47 | | **64.4** | mg/Kg-dry | 1 | 12/23/2015 11:24 | 115162 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 12/23/2015 11:24 | 115162 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 12/23/2015 11:24 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.552** | mg/Kg-dry | 1 | 12/23/2015 12:14 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.574 | J | **0.30** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Anthracene | NELAP | 0.574 | | **0.845** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Benzo(a)anthracene | NELAP | 0.574 | | **4.71** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Benzo(a)pyrene | NELAP | 0.574 | | **4.93** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.574 | | **7.38** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.574 | | **2.22** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Chrysene | NELAP | 0.574 | | **4.36** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.574 | | **ND** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Fluoranthene | NELAP | 0.574 | | **9.30** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Fluorene | NELAP | 0.574 | | **ND** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Pyrene | NELAP | 0.574 | | **9.16** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| TPH-DRO (C10 - C21) | | 203 | J | **110** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| TPH-ORO (C21 - C35) | | 203 | J | **110** | mg/Kg-dry | 5 | 12/24/2015 6:08 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **73.6** | %REC | 5 | 12/24/2015 6:08 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **67.5** | %REC | 5 | 12/24/2015 6:08 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.0** | %REC | 5 | 12/24/2015 6:08 | 115091 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,1,1-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,1,2-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,1-Dichloro-2-propanone | | 41.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,1-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,1-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,1-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,2,3-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,2,3-Trichloropropane | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,2,3-Trimethylbenzene | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,2,4-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,2,4-Trimethylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,2-Dibromoethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,2-Dichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121421-018 **Client Sample ID:** SCI-17A (0-3)

**Matrix:** SOLID **Collection Date:** 12/18/2015 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,3,5-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,3-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,3-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1,4-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 1-Chlorobutane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 2,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 2-Butanone | NELAP | 41.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 2-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 2-Hexanone | NELAP | 41.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 2-Nitropropane | NELAP | 41.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 4-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| 4-Methyl-2-pentanone | NELAP | 41.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Acetone | NELAP | 41.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Acetonitrile | NELAP | 83.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Acrolein | NELAP | 83.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Acrylonitrile | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Allyl chloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Bromobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Bromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Bromodichloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Bromoform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Bromomethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Carbon disulfide | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Carbon tetrachloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Chlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Chloroethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Chloroform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Chloromethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| cis-1,2-Dichloroethene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Cyclohexanone | | 83.9 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Dibromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Dibromomethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Dichlorodifluoromethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Diisopropyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Ethyl ether | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Ethyl methacrylate | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Ethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Ethyl-tert-butyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Hexachlorobutadiene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Hexachloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Iodomethane | NELAP | 8.4 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Isopropylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| m,p-Xylenes | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-018
**Client Sample ID:** SCI-17A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 41.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Methyl Methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Methylacrylate | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Methylene chloride | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Naphthalene | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| n-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| n-Heptane | | 16.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| n-Hexane | | 16.8 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Nitrobenzene | NELAP | 83.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| n-Propylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| o-Xylene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Pentachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| p-Isopropyltoluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Propionitrile | NELAP | 41.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| sec-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Styrene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| tert-Amyl methyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| tert-Butyl alcohol | NELAP | 41.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| tert-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Tetrachloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Tetrahydrofuran | NELAP | 41.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Toluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| TPH - GRO (C6 - C10) | | 419 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| trans-1,2-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.4 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Trichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Trichlorofluoromethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Vinyl acetate | NELAP | 41.9 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Xylenes, Total | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/21/2015 17:48 | 115108 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **108.6** | %REC | 1 | 12/21/2015 17:48 | 115108 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **105.4** | %REC | 1 | 12/21/2015 17:48 | 115108 |
| Surr: Toluene-d8 | | 86-116 | | **101.2** | %REC | 1 | 12/21/2015 17:48 | 115108 |

*LCS & LCSD recovered outside upper QC limits for acetone. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-019
**Client Sample ID:** SCI-17B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **25.4** | % | 1 | 12/23/2015 20:07 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **9.21** | mg/Kg-dry | 1 | 12/23/2015 11:27 | 115162 |
| Barium | NELAP | 0.25 | | **184** | mg/Kg-dry | 1 | 12/23/2015 11:27 | 115162 |
| Cadmium | NELAP | 0.20 | | **0.40** | mg/Kg-dry | 1 | 12/23/2015 11:27 | 115162 |
| Chromium | NELAP | 0.50 | | **17.8** | mg/Kg-dry | 1 | 12/23/2015 11:27 | 115162 |
| Lead | NELAP | 1.50 | | **63.1** | mg/Kg-dry | 1 | 12/23/2015 11:27 | 115162 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/23/2015 11:27 | 115162 |
| Silver | NELAP | 0.50 | | **< 0.50** | mg/Kg-dry | 1 | 12/23/2015 11:27 | 115162 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.211** | mg/Kg-dry | 1 | 12/23/2015 12:17 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0437 | J | **0.023** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Anthracene | NELAP | 0.0437 | J | **0.031** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Benzo(a)anthracene | NELAP | 0.0437 | | **0.0663** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Benzo(a)pyrene | NELAP | 0.0437 | | **0.0492** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Benzo(b)fluoranthene | NELAP | 0.0437 | | **0.0659** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Benzo(k)fluoranthene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Chrysene | NELAP | 0.0437 | | **0.0518** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Dibenzo(a,h)anthracene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Fluoranthene | NELAP | 0.0437 | | **0.130** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Fluorene | NELAP | 0.0437 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Pyrene | NELAP | 0.0437 | | **0.115** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| TPH-DRO (C10 - C21) | | 15.4 | | **24.6** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| TPH-ORO (C21 - C35) | | 15.4 | | **19.7** | mg/Kg-dry | 1 | 12/24/2015 1:39 | 115091 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **69.2** | %REC | 1 | 12/24/2015 1:39 | 115091 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **64.9** | %REC | 1 | 12/24/2015 1:39 | 115091 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **82.2** | %REC | 1 | 12/24/2015 1:39 | 115091 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,1-Dichloro-2-propanone | | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-019
**Client Sample ID:** SCI-17B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,3-Dichloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 1-Chlorobutane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 2,2-Dichloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 2-Butanone | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 2-Chlorotoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 2-Hexanone | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 2-Nitropropane | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 4-Chlorotoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Acetone | NELAP | 47.1 | J | **12** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Acetonitrile | NELAP | 94.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Acrolein | NELAP | 94.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Acrylonitrile | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Allyl chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Benzene | NELAP | 0.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Bromobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Bromochloromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Bromodichloromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Bromoform | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Bromomethane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Carbon disulfide | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Carbon tetrachloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Chlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Chloroethane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Chloroform | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Chloromethane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Cyclohexanone | | 94.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Dibromochloromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Dibromomethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Dichlorodifluoromethane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Diisopropyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Ethyl ether | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Ethyl methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Ethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Ethyl-tert-butyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Hexachlorobutadiene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Hexachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Iodomethane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Isopropylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| m,p-Xylenes | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Methacrylonitrile | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-019
**Client Sample ID:** SCI-17B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/18/2015 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Methylacrylate | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Methylene chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Naphthalene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| n-Heptane | | 18.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| n-Hexane | | 18.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Nitrobenzene | NELAP | 94.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Propionitrile | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| tert-Butyl alcohol | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Tetrahydrofuran | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| TPH - GRO (C6 - C10) | | 471 | J | **300** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Vinyl acetate | NELAP | 47.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:11 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **98.4** | %REC | 1 | 12/22/2015 14:11 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | S | **120.9** | %REC | 1 | 12/22/2015 14:11 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **109.6** | %REC | 1 | 12/22/2015 14:11 | 115156 |

*Surrogate recovery is outside QC limits due to matrix interference.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-020
**Client Sample ID:** TB-02
**Matrix:** TRIP BLANK
**Collection Date:** 12/18/2015 17:18

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-020
**Client Sample ID:** TB-02
**Matrix:** TRIP BLANK
**Collection Date:** 12/18/2015 17:18

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Chloroform | NELAP | 5.0 | J | **1.0** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Naphthalene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121421
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121421-020
**Client Sample ID:** TB-02
**Matrix:** TRIP BLANK
**Collection Date:** 12/18/2015 17:18

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/21/2015 13:32 | 115150 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **85.0** | %REC | 1 | 12/21/2015 13:32 | 115150 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **96.3** | %REC | 1 | 12/21/2015 13:32 | 115150 |
| Surr: Toluene-d8 | | 84.3-114 | | **90.0** | %REC | 1 | 12/21/2015 13:32 | 115150 |

*LCS and LCSD recovered outside upper QC limits for acetone. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).*

# Quality Control Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

## EPA SW846 3550C, 5035A, ASTM D2974

**Batch** R213036 **SampType:** LCS Units **%**
SampID: LCS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 12/22/2015 |

**Batch** R213036 **SampType:** LCSQC Units **%**
SampID: LCSQC

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 12/22/2015 |

**Batch** R213088 **SampType:** LCS Units **%**
SampID: LCS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 12/23/2015 |

**Batch** R213088 **SampType:** LCSQC Units **%**
SampID: LCSQC

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 12/23/2015 |

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115162 **SampType:** MBLK Units **mg/Kg-dry**
SampID: MBLK-115162

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Barium | 0.25 | | **< 0.25** | 0.2500 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Silver | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 12/23/2015 |

**Batch** 115162 **SampType:** LCS Units **mg/Kg-dry**
SampID: LCS-115162

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **47.7** | 50.00 | 0 | 95.5 | 85 | 115 | 12/23/2015 |
| Barium | 0.25 | | **195** | 200.0 | 0 | 97.5 | 85 | 115 | 12/23/2015 |
| Cadmium | 0.20 | | **4.91** | 5.000 | 0 | 98.2 | 85 | 115 | 12/23/2015 |
| Chromium | 0.50 | | **20.9** | 20.00 | 0 | 104.4 | 85 | 115 | 12/23/2015 |
| Lead | 1.50 | | **52.2** | 50.00 | 0 | 104.5 | 85 | 115 | 12/23/2015 |
| Selenium | 4.00 | | **49.2** | 50.00 | 0 | 98.5 | 85 | 115 | 12/23/2015 |
| Silver | 0.50 | | **4.66** | 5.000 | 0 | 93.2 | 85 | 115 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115162 **SampType:** MS Units **mg/Kg-dry**

SampID: 15121356-012AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.45 | | **53.2** | 49.02 | 7.147 | 94.0 | 75 | 125 | 12/23/2015 |
| Barium | 0.25 | | **198** | 196.1 | 12.32 | 94.6 | 75 | 125 | 12/23/2015 |
| Cadmium | 0.20 | | **4.86** | 4.902 | 0.1373 | 96.4 | 75 | 125 | 12/23/2015 |
| Chromium | 0.49 | | **29.8** | 19.61 | 7.873 | 111.7 | 75 | 125 | 12/23/2015 |
| Lead | 1.47 | | **61.4** | 49.02 | 10.37 | 104.1 | 75 | 125 | 12/23/2015 |
| Selenium | 3.92 | | **45.3** | 49.02 | 0 | 92.5 | 75 | 125 | 12/23/2015 |
| Silver | 0.49 | | **4.40** | 4.902 | 0 | 89.8 | 75 | 125 | 12/23/2015 |

**Batch** 115162 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**

SampID: 15121356-012AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.45 | | **53.3** | 49.02 | 7.147 | 94.1 | 53.25 | 0.09 | 12/23/2015 |
| Barium | 0.25 | | **201** | 196.1 | 12.32 | 96.1 | 197.7 | 1.53 | 12/23/2015 |
| Cadmium | 0.20 | | **4.88** | 4.902 | 0.1373 | 96.8 | 4.863 | 0.40 | 12/23/2015 |
| Chromium | 0.49 | | **30.0** | 19.61 | 7.873 | 112.8 | 29.77 | 0.75 | 12/23/2015 |
| Lead | 1.47 | | **61.0** | 49.02 | 10.37 | 103.2 | 61.41 | 0.70 | 12/23/2015 |
| Selenium | 3.92 | | **45.6** | 49.02 | 0 | 93.0 | 45.32 | 0.54 | 12/23/2015 |
| Silver | 0.49 | | **4.44** | 4.902 | 0 | 90.6 | 4.402 | 0.89 | 12/23/2015 |

**Batch** 115162 **SampType:** MS Units **mg/Kg-dry**

SampID: 15121421-010AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.45 | | **54.2** | 49.02 | 11.19 | 87.7 | 75 | 125 | 12/23/2015 |
| Barium | 0.25 | | **305** | 196.1 | 104.5 | 102.2 | 75 | 125 | 12/23/2015 |
| Cadmium | 0.20 | | **4.84** | 4.902 | 0.2549 | 93.6 | 75 | 125 | 12/23/2015 |
| Chromium | 0.49 | | **49.4** | 19.61 | 29.93 | 99.3 | 75 | 125 | 12/23/2015 |
| Lead | 1.47 | | **61.6** | 49.02 | 13.46 | 98.1 | 75 | 125 | 12/23/2015 |
| Selenium | 3.92 | | **43.1** | 49.02 | 0 | 87.9 | 75 | 125 | 12/23/2015 |
| Silver | 0.49 | | **4.21** | 4.902 | 0 | 85.8 | 75 | 125 | 12/23/2015 |

**Batch** 115162 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**

SampID: 15121421-010AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.45 | | **56.0** | 49.02 | 11.19 | 91.4 | 54.19 | 3.31 | 12/23/2015 |
| Barium | 0.25 | | **306** | 196.1 | 104.5 | 102.8 | 305.0 | 0.35 | 12/23/2015 |
| Cadmium | 0.20 | | **4.95** | 4.902 | 0.2549 | 95.8 | 4.843 | 2.20 | 12/23/2015 |
| Chromium | 0.49 | | **50.1** | 19.61 | 29.93 | 102.9 | 49.40 | 1.42 | 12/23/2015 |
| Lead | 1.47 | | **62.8** | 49.02 | 13.46 | 100.7 | 61.56 | 2.06 | 12/23/2015 |
| Selenium | 3.92 | | **43.7** | 49.02 | 0 | 89.2 | 43.10 | 1.47 | 12/23/2015 |
| Silver | 0.49 | | **4.27** | 4.902 | 0 | 87.2 | 4.206 | 1.62 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 7471B

**Batch 115165** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115165

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **< 0.010** | 0.01000 | 0 | 0 | -100 | 100 | 12/23/2015 |

**Batch 115165** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115165

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.265** | 0.2500 | 0 | 106.0 | 85 | 115 | 12/23/2015 |

**Batch 115165** **SampType: MS** Units **mg/Kg-dry**

SampID: 15121421-013AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.366** | 0.3022 | 0.02452 | 113.2 | 75 | 125 | 12/23/2015 |

**Batch 115165** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**

SampID: 15121421-013AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.351** | 0.3022 | 0.02452 | 108.1 | 0.3665 | 4.28 | 12/23/2015 |

**Batch 115165** **SampType: MS** Units **mg/Kg**

SampID: 15121540-001AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.317** | 0.2500 | 0.03180 | 114.1 | 75 | 125 | 12/23/2015 |

**Batch 115165** **SampType: MSD** Units **mg/Kg** RPD Limit **15**

SampID: 15121540-001AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.303** | 0.2500 | 0.03180 | 108.3 | 0.3171 | 4.69 | 12/23/2015 |

## SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD

**Batch 115116** **SampType: MBLK** Units **µg/Kg**

SampID: MBLK-115116

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 37.5 | | **ND** | | | | | | 12/22/2015 |
| Aroclor 1221 | 37.5 | | **ND** | | | | | | 12/22/2015 |
| Aroclor 1232 | 37.5 | | **ND** | | | | | | 12/22/2015 |
| Aroclor 1242 | 37.5 | | **ND** | | | | | | 12/22/2015 |
| Aroclor 1248 | 37.5 | | **ND** | | | | | | 12/22/2015 |
| Aroclor 1254 | 37.5 | | **ND** | | | | | | 12/22/2015 |
| Aroclor 1260 | 37.5 | | **ND** | | | | | | 12/22/2015 |
| Surr: Decachlorobiphenyl | | | **8.2** | 8.300 | | 99.0 | 76.4 | 155 | 12/22/2015 |
| Surr: Tetrachloro-meta-xylene | | | **8.0** | 8.300 | | 96.2 | 44.4 | 122 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 3550B, 8082, POLYCHLORINATED BIPHENYLS (PCBS) BY GC/ECD

**Batch 115116** **SampType: LCS** Units **µg/Kg**

SampID: LCSPCB-115116

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 37.5 | | **205** | 166.7 | 0 | 123.1 | 63.5 | 130 | 12/22/2015 |
| Aroclor 1260 | 37.5 | | **162** | 166.7 | 0 | 97.5 | 76 | 138 | 12/22/2015 |
| Surr: Decachlorobiphenyl | | | **7.8** | 8.300 | | 93.4 | 76.4 | 155 | 12/22/2015 |
| Surr: Tetrachloro-meta-xylene | | | **8.1** | 8.300 | | 97.7 | 44.4 | 122 | 12/22/2015 |

**Batch 115116** **SampType: MS** Units **µg/Kg-dry**

SampID: 15121421-008AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 44.8 | | **188** | 199.2 | 0 | 94.2 | 35.8 | 143 | 12/22/2015 |
| Aroclor 1260 | 44.8 | | **186** | 199.2 | 0 | 93.5 | 22.3 | 152 | 12/22/2015 |
| Surr: Decachlorobiphenyl | | | **10.2** | 9.919 | | 102.8 | 5 | 156 | 12/22/2015 |
| Surr: Tetrachloro-meta-xylene | | | **10.4** | 9.919 | | 104.9 | 7.35 | 123 | 12/22/2015 |

**Batch 115116** **SampType: MSD** Units **µg/Kg-dry** RPD Limit **40**

SampID: 15121421-008AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 44.4 | | **202** | 197.2 | 0 | 102.3 | 187.7 | 7.23 | 12/22/2015 |
| Aroclor 1260 | 44.4 | | **204** | 197.2 | 0 | 103.7 | 186.3 | 9.27 | 12/22/2015 |
| Surr: Decachlorobiphenyl | | | **10.8** | 9.818 | | 109.8 | | | 12/22/2015 |
| Surr: Tetrachloro-meta-xylene | | | **10.5** | 9.818 | | 106.8 | | | 12/22/2015 |

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115091** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115091

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Anthracene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(a)anthracene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(a)pyrene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(b)fluoranthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(k)fluoranthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Chrysene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Dibenzo(a,h)anthracene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Fluoranthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Fluorene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Pyrene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| TPH-DRO (C10 - C21) | 12.0 | J | **7.5** | | | | | | 12/21/2015 |
| TPH-ORO (C21 - C35) | 12.0 | | **ND** | | | | | | 12/21/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.718** | 0.8350 | | 86.0 | 42.6 | 97.2 | 12/21/2015 |
| Surr: Nitrobenzene-d5 | | | **0.648** | 0.8350 | | 77.6 | 16.7 | 118 | 12/21/2015 |
| Surr: p-Terphenyl-d14 | | | **0.807** | 0.8350 | | 96.6 | 50.1 | 111 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115091** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115091

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **1.52** | 1.670 | 0 | 91.2 | 56.4 | 104 | 12/21/2015 |
| Anthracene | 0.0340 | | **1.40** | 1.670 | 0 | 83.6 | 55.9 | 101 | 12/21/2015 |
| Benzo(a)anthracene | 0.0340 | | **1.42** | 1.670 | 0 | 85.3 | 51.7 | 107 | 12/21/2015 |
| Benzo(a)pyrene | 0.0340 | | **1.50** | 1.670 | 0 | 89.6 | 57.2 | 114 | 12/21/2015 |
| Benzo(b)fluoranthene | 0.0340 | | **1.50** | 1.670 | 0 | 89.9 | 45.3 | 116 | 12/21/2015 |
| Benzo(k)fluoranthene | 0.0340 | | **1.46** | 1.670 | 0 | 87.4 | 58.2 | 114 | 12/21/2015 |
| Chrysene | 0.0340 | | **1.53** | 1.670 | 0 | 91.4 | 58.9 | 102 | 12/21/2015 |
| Dibenzo(a,h)anthracene | 0.0340 | | **1.50** | 1.670 | 0 | 89.9 | 48.9 | 123 | 12/21/2015 |
| Fluoranthene | 0.0340 | | **1.42** | 1.670 | 0 | 85.0 | 54.9 | 108 | 12/21/2015 |
| Fluorene | 0.0340 | | **1.48** | 1.670 | 0 | 88.6 | 58 | 101 | 12/21/2015 |
| Pyrene | 0.0340 | | **1.43** | 1.670 | 0 | 85.4 | 53.4 | 107 | 12/21/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.733** | 0.8350 | | 87.8 | 42.6 | 97.2 | 12/21/2015 |
| Surr: Nitrobenzene-d5 | | | **0.910** | 0.8350 | | 108.9 | 16.7 | 118 | 12/21/2015 |
| Surr: p-Terphenyl-d14 | | | **0.781** | 0.8350 | | 93.5 | 50.1 | 111 | 12/21/2015 |

**Batch 115091** **SampType: LCSG** Units **mg/Kg**

SampID: LCSDRO-115091

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 12.0 | | **24.8** | 33.40 | 0 | 74.3 | 53.7 | 103 | 12/21/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.651** | 0.8350 | | 77.9 | 42.6 | 97.2 | 12/21/2015 |
| Surr: Nitrobenzene-d5 | | | **0.585** | 0.8350 | | 70.1 | 16.7 | 118 | 12/21/2015 |
| Surr: p-Terphenyl-d14 | | | **0.750** | 0.8350 | | 89.8 | 50.1 | 111 | 12/21/2015 |

**Batch 115091** **SampType: MS** Units **mg/Kg-dry**

SampID: 15121421-014AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 403 | J | **300** | 224.1 | 0 | 132.1 | 34.5 | 160 | 12/24/2015 |
| Surr: 2-Fluorobiphenyl | | | **4.25** | 5.604 | | 75.8 | 12 | 133 | 12/24/2015 |
| Surr: Nitrobenzene-d5 | | | **3.72** | 5.604 | | 66.5 | 30.9 | 115 | 12/24/2015 |
| Surr: p-Terphenyl-d14 | | | **4.72** | 5.604 | | 84.2 | 31.5 | 137 | 12/24/2015 |

**Batch 115091** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **30**

SampID: 15121421-014AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 359 | J | **280** | 199.9 | 0 | 142.3 | 296.0 | 0.00 | 12/24/2015 |
| Surr: 2-Fluorobiphenyl | | | **3.51** | 4.996 | | 70.3 | | | 12/24/2015 |
| Surr: Nitrobenzene-d5 | | | **3.08** | 4.996 | | 61.7 | | | 12/24/2015 |
| Surr: p-Terphenyl-d14 | | | **4.16** | 4.996 | | 83.2 | | | 12/24/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115150** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Butanone | 25.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Chloroethyl vinyl ether | 20.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Hexanone | 25.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 4-Methyl-2-pentanone | 25.0 | | **ND** | | | | | | 12/21/2015 |
| Acetone | 25.0 | | **ND** | | | | | | 12/21/2015 |
| Acetonitrile | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/21/2015 |
| Acrylonitrile | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Benzene | 2.0 | | **ND** | | | | | | 12/21/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115150** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Chloromethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Chloroprene | 20.0 | | **ND** | | | | | | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| cis-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Cyclohexanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Diisopropyl ether | 2.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl acetate | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl-tert-butyl ether | 2.0 | | **ND** | | | | | | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Hexachloroethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Iodomethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Methacrylonitrile | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/21/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/21/2015 |
| n-Butyl acetate | 25.0 | | **ND** | | | | | | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/21/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/21/2015 |
| Nitrobenzene | 50.0 | | **ND** | | | | | | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Pentachloroethane | 20.0 | | **ND** | | | | | | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Amyl methyl ether | 2.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Butyl alcohol | 25.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Tetrahydrofuran | 20.0 | | **ND** | | | | | | 12/21/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| trans-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115150** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Vinyl acetate | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/21/2015 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 12/21/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **43.2** | 50.00 | | 86.4 | 74.7 | 129 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **46.6** | 50.00 | | 93.2 | 86 | 119 | 12/21/2015 |
| Surr: Toluene-d8 | | | **44.4** | 50.00 | | 88.9 | 84.3 | 114 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115150** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **48.8** | 50.00 | 0 | 97.7 | 50.56 | 3.44 | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 52.46 | 2.63 | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **40.9** | 50.00 | 0 | 81.9 | 40.70 | 0.56 | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **54.8** | 50.00 | 0 | 109.6 | 55.20 | 0.69 | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **44.8** | 50.00 | 0 | 89.7 | 46.32 | 3.27 | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **97.8** | 125.0 | 0 | 78.3 | 98.80 | 1.00 | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 52.75 | 1.59 | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **51.5** | 50.00 | 0 | 103.1 | 51.91 | 0.73 | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 54.49 | 2.06 | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 50.98 | 3.86 | 12/21/2015 |
| 1,2,3-Trichloropropane | 5.0 | | **41.9** | 50.00 | 0 | 83.9 | 41.18 | 1.80 | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **42.9** | 50.00 | 0 | 85.8 | 43.08 | 0.44 | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 49.37 | 2.05 | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **45.4** | 50.00 | 0 | 90.8 | 45.80 | 0.92 | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **39.7** | 50.00 | 0 | 79.4 | 40.02 | 0.83 | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 48.35 | 3.22 | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **45.4** | 50.00 | 0 | 90.7 | 46.59 | 2.68 | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **46.7** | 50.00 | 0 | 93.4 | 46.86 | 0.38 | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 54.11 | 2.51 | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **45.3** | 50.00 | 0 | 90.7 | 46.64 | 2.85 | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **46.3** | 50.00 | 0 | 92.5 | 46.43 | 0.35 | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **44.4** | 50.00 | 0 | 88.7 | 45.65 | 2.84 | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **45.5** | 50.00 | 0 | 91.1 | 45.36 | 0.37 | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 51.17 | 0.88 | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 52.64 | 1.98 | 12/21/2015 |
| 2-Butanone | 25.0 | | **158** | 125.0 | 0 | 126.0 | 163.7 | 3.85 | 12/21/2015 |
| 2-Chloroethyl vinyl ether | 20.0 | | **51.5** | 50.00 | 0 | 103.0 | 52.79 | 2.47 | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **42.8** | 50.00 | 0 | 85.7 | 43.09 | 0.58 | 12/21/2015 |
| 2-Hexanone | 25.0 | | **111** | 125.0 | 0 | 88.9 | 117.5 | 5.57 | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **480** | 500.0 | 0 | 96.0 | 483.9 | 0.76 | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **43.2** | 50.00 | 0 | 86.4 | 43.32 | 0.30 | 12/21/2015 |
| 4-Methyl-2-pentanone | 25.0 | | **108** | 125.0 | 0 | 86.3 | 108.4 | 0.53 | 12/21/2015 |
| Acetone | 25.0 | S | **199** | 125.0 | 0 | 159.3 | 215.1 | 7.69 | 12/21/2015 |
| Acetonitrile | 50.0 | | **579** | 500.0 | 0 | 115.7 | 593.8 | 2.57 | 12/21/2015 |
| Acrolein | 100 | | **432** | 500.0 | 0 | 86.3 | 432.3 | 0.16 | 12/21/2015 |
| Acrylonitrile | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 52.12 | 0.17 | 12/21/2015 |
| Allyl chloride | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 55.59 | 1.27 | 12/21/2015 |
| Benzene | 2.0 | | **55.4** | 50.00 | 0 | 110.7 | 55.72 | 0.65 | 12/21/2015 |
| Bromobenzene | 5.0 | | **41.3** | 50.00 | 0 | 82.7 | 41.35 | 0.02 | 12/21/2015 |
| Bromochloromethane | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 49.91 | 1.01 | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **54.0** | 50.00 | 0 | 107.9 | 54.79 | 1.54 | 12/21/2015 |
| Bromoform | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 52.14 | 3.59 | 12/21/2015 |
| Bromomethane | 10.0 | | **32.6** | 50.00 | 0 | 65.1 | 32.60 | 0.15 | 12/21/2015 |
| Carbon disulfide | 5.0 | | **57.6** | 50.00 | 0 | 115.1 | 58.56 | 1.74 | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **54.3** | 50.00 | 0 | 108.7 | 55.24 | 1.64 | 12/21/2015 |
| Chlorobenzene | 5.0 | | **47.8** | 50.00 | 0 | 95.7 | 48.76 | 1.93 | 12/21/2015 |
| Chloroethane | 10.0 | | **38.1** | 50.00 | 0 | 76.1 | 38.49 | 1.12 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115150** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **51.1** | 50.00 | 0 | 102.1 | 51.41 | 0.68 | 12/21/2015 |
| Chloromethane | 10.0 | | **39.8** | 50.00 | 0 | 79.6 | 40.76 | 2.33 | 12/21/2015 |
| Chloroprene | 20.0 | | **46.9** | 50.00 | 0 | 93.7 | 48.05 | 2.51 | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 51.95 | 0.68 | 12/21/2015 |
| cis-1,3-Dichloropropene | 5.0 | | **56.7** | 50.00 | 0 | 113.4 | 57.71 | 1.77 | 12/21/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **41.0** | 50.00 | 0 | 82.0 | 42.74 | 4.18 | 12/21/2015 |
| Cyclohexanone | 50.0 | | **566** | 500.0 | 0 | 113.3 | 575.2 | 1.55 | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **48.6** | 50.00 | 0 | 97.2 | 50.95 | 4.76 | 12/21/2015 |
| Dibromomethane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 53.32 | 3.24 | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **48.7** | 50.00 | 0 | 97.5 | 49.19 | 0.92 | 12/21/2015 |
| Diisopropyl ether | 2.0 | | **51.2** | 50.00 | 0 | 102.4 | 52.29 | 2.13 | 12/21/2015 |
| Ethyl acetate | 10.0 | | **51.3** | 50.00 | 0 | 102.7 | 51.84 | 0.97 | 12/21/2015 |
| Ethyl ether | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 53.96 | 2.25 | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **46.3** | 50.00 | 0 | 92.5 | 47.66 | 2.98 | 12/21/2015 |
| Ethylbenzene | 5.0 | | **45.6** | 50.00 | 0 | 91.2 | 46.63 | 2.28 | 12/21/2015 |
| Ethyl-tert-butyl ether | 2.0 | | **51.0** | 50.00 | 0 | 101.9 | 52.75 | 3.45 | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 54.02 | 4.60 | 12/21/2015 |
| Hexachloroethane | 10.0 | | **45.6** | 50.00 | 0 | 91.3 | 46.82 | 2.53 | 12/21/2015 |
| Iodomethane | 5.0 | | **57.8** | 50.00 | 0 | 115.7 | 57.09 | 1.32 | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **47.5** | 50.00 | 0 | 95.1 | 50.02 | 5.08 | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **91.8** | 100.0 | 0 | 91.8 | 93.85 | 2.16 | 12/21/2015 |
| Methacrylonitrile | 10.0 | | **51.9** | 50.00 | 0 | 103.9 | 53.13 | 2.28 | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 51.32 | 2.03 | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **54.1** | 50.00 | 0 | 108.3 | 55.23 | 2.01 | 12/21/2015 |
| Methylacrylate | 10.0 | | **56.1** | 50.00 | 0 | 112.2 | 56.26 | 0.30 | 12/21/2015 |
| Methylene chloride | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 51.14 | 2.49 | 12/21/2015 |
| Naphthalene | 10.0 | | **50.1** | 50.00 | 0 | 100.2 | 51.30 | 2.35 | 12/21/2015 |
| n-Butyl acetate | 25.0 | | **40.8** | 50.00 | 0 | 81.7 | 42.25 | 3.37 | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **45.5** | 50.00 | 0 | 90.9 | 47.12 | 3.56 | 12/21/2015 |
| n-Heptane | 20.0 | | **51.1** | 50.00 | 0 | 102.2 | 53.19 | 4.03 | 12/21/2015 |
| n-Hexane | 20.0 | | **52.9** | 50.00 | 0 | 105.7 | 54.80 | 3.59 | 12/21/2015 |
| Nitrobenzene | 50.0 | | **467** | 500.0 | 0 | 93.3 | 487.8 | 4.41 | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **44.2** | 50.00 | 0 | 88.3 | 45.17 | 2.24 | 12/21/2015 |
| o-Xylene | 5.0 | | **45.7** | 50.00 | 0 | 91.4 | 46.57 | 1.91 | 12/21/2015 |
| Pentachloroethane | 20.0 | | **46.1** | 50.00 | 0 | 92.2 | 46.33 | 0.54 | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **47.2** | 50.00 | 0 | 94.3 | 47.24 | 0.15 | 12/21/2015 |
| Propionitrile | 50.0 | | **579** | 500.0 | 0 | 115.8 | 582.4 | 0.60 | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **45.7** | 50.00 | 0 | 91.5 | 46.63 | 1.93 | 12/21/2015 |
| Styrene | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 48.15 | 2.20 | 12/21/2015 |
| tert-Amyl methyl ether | 2.0 | | **52.4** | 50.00 | 0 | 104.7 | 53.66 | 2.47 | 12/21/2015 |
| tert-Butyl alcohol | 25.0 | | **294** | 250.0 | 0 | 117.4 | 296.4 | 0.93 | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **42.4** | 50.00 | 0 | 84.7 | 42.56 | 0.45 | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 50.92 | 3.66 | 12/21/2015 |
| Tetrahydrofuran | 20.0 | | **50.2** | 50.00 | 0 | 100.3 | 49.90 | 0.50 | 12/21/2015 |
| Toluene | 5.0 | | **46.2** | 50.00 | 0 | 92.3 | 46.99 | 1.78 | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 54.31 | 2.23 | 12/21/2015 |
| trans-1,3-Dichloropropene | 5.0 | | **45.8** | 50.00 | 0 | 91.7 | 47.39 | 3.33 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115150** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **36.8** | 50.00 | 0 | 73.6 | 36.88 | 0.24 | 12/21/2015 |
| Trichloroethene | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 55.02 | 0.91 | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 49.39 | 2.60 | 12/21/2015 |
| Vinyl acetate | 10.0 | | **50.4** | 50.00 | 0 | 100.8 | 52.08 | 3.24 | 12/21/2015 |
| Vinyl chloride | 2.0 | | **39.0** | 50.00 | 0 | 77.9 | 39.20 | 0.59 | 12/21/2015 |
| Xylenes, Total | 5.0 | | **138** | 150.0 | 0 | 91.7 | 140.4 | 2.08 | 12/21/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **105** | 100.0 | 0 | 104.7 | 106.3 | 1.47 | 12/21/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **103** | 100.0 | 0 | 102.5 | 105.1 | 2.47 | 12/21/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **77.8** | 100.0 | 0 | 77.8 | 79.62 | 2.34 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **41.3** | 50.00 | | 82.6 | | | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **46.2** | 50.00 | | 92.5 | | | 12/21/2015 |
| Surr: Toluene-d8 | | | **43.9** | 50.00 | | 87.8 | | | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115150** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 81.9 | 115 | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 79.4 | 124 | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **40.7** | 50.00 | 0 | 81.4 | 74.7 | 116 | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **55.2** | 50.00 | 0 | 110.4 | 72.9 | 121 | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **46.3** | 50.00 | 0 | 92.6 | 80.8 | 111 | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **98.8** | 125.0 | 0 | 79.0 | 66.3 | 130 | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 79.4 | 114 | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 74.1 | 117 | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 81.7 | 116 | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 79.7 | 118 | 12/21/2015 |
| 1,2,3-Trichloropropane | 5.0 | | **41.2** | 50.00 | 0 | 82.4 | 77.3 | 112 | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **43.1** | 50.00 | 0 | 86.2 | 79.9 | 119 | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **49.4** | 50.00 | 0 | 98.7 | 79.3 | 118 | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **45.8** | 50.00 | 0 | 91.6 | 78.7 | 115 | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **40.0** | 50.00 | 0 | 80.0 | 76 | 122 | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 80.8 | 114 | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **46.6** | 50.00 | 0 | 93.2 | 78.3 | 112 | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **46.9** | 50.00 | 0 | 93.7 | 70.6 | 118 | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 79.6 | 113 | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **46.6** | 50.00 | 0 | 93.3 | 77.5 | 115 | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **46.4** | 50.00 | 0 | 92.9 | 78.6 | 117 | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **45.6** | 50.00 | 0 | 91.3 | 78.8 | 112 | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **45.4** | 50.00 | 0 | 90.7 | 77.8 | 114 | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 78.6 | 115 | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 74.9 | 130 | 12/21/2015 |
| 2-Butanone | 25.0 | | **164** | 125.0 | 0 | 131.0 | 70.7 | 136 | 12/21/2015 |
| 2-Chloroethyl vinyl ether | 20.0 | | **52.8** | 50.00 | 0 | 105.6 | 52.5 | 145 | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **43.1** | 50.00 | 0 | 86.2 | 77.4 | 114 | 12/21/2015 |
| 2-Hexanone | 25.0 | | **117** | 125.0 | 0 | 94.0 | 73.3 | 125 | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **484** | 500.0 | 0 | 96.8 | 67.3 | 139 | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **43.3** | 50.00 | 0 | 86.6 | 78.3 | 115 | 12/21/2015 |
| 4-Methyl-2-pentanone | 25.0 | | **108** | 125.0 | 0 | 86.7 | 76.3 | 122 | 12/21/2015 |
| Acetone | 25.0 | S | **215** | 125.0 | 0 | 172.1 | 56.4 | 147 | 12/21/2015 |
| Acetonitrile | 50.0 | | **594** | 500.0 | 0 | 118.8 | 59.3 | 129 | 12/21/2015 |
| Acrolein | 100 | | **432** | 500.0 | 0 | 86.5 | 1 | 201 | 12/21/2015 |
| Acrylonitrile | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 74.1 | 128 | 12/21/2015 |
| Allyl chloride | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 71.5 | 123 | 12/21/2015 |
| Benzene | 2.0 | | **55.7** | 50.00 | 0 | 111.4 | 80 | 114 | 12/21/2015 |
| Bromobenzene | 5.0 | | **41.4** | 50.00 | 0 | 82.7 | 73.2 | 118 | 12/21/2015 |
| Bromochloromethane | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 73.3 | 121 | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **54.8** | 50.00 | 0 | 109.6 | 81.6 | 121 | 12/21/2015 |
| Bromoform | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 83.1 | 127 | 12/21/2015 |
| Bromomethane | 10.0 | | **32.6** | 50.00 | 0 | 65.2 | 44.4 | 154 | 12/21/2015 |
| Carbon disulfide | 5.0 | | **58.6** | 50.00 | 0 | 117.1 | 73.2 | 118 | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **55.2** | 50.00 | 0 | 110.5 | 79.4 | 130 | 12/21/2015 |
| Chlorobenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 81.4 | 110 | 12/21/2015 |
| Chloroethane | 10.0 | | **38.5** | 50.00 | 0 | 77.0 | 52.1 | 137 | 12/21/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121421

**Client Project:** NGA 2015-0461.21

**Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115150** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 82.7 | 116 | 12/21/2015 |
| Chloromethane | 10.0 | | **40.8** | 50.00 | 0 | 81.5 | 48.2 | 144 | 12/21/2015 |
| Chloroprene | 20.0 | | **48.0** | 50.00 | 0 | 96.1 | 80.6 | 126 | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **52.0** | 50.00 | 0 | 103.9 | 78.2 | 116 | 12/21/2015 |
| cis-1,3-Dichloropropene | 5.0 | | **57.7** | 50.00 | 0 | 115.4 | 83 | 119 | 12/21/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **42.7** | 50.00 | 0 | 85.5 | 60.7 | 137 | 12/21/2015 |
| Cyclohexanone | 50.0 | | **575** | 500.0 | 0 | 115.0 | 54.2 | 145 | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 81.2 | 121 | 12/21/2015 |
| Dibromomethane | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 78.3 | 118 | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **49.2** | 50.00 | 0 | 98.4 | 20.6 | 154 | 12/21/2015 |
| Diisopropyl ether | 2.0 | | **52.3** | 50.00 | 0 | 104.6 | 73.1 | 116 | 12/21/2015 |
| Ethyl acetate | 10.0 | | **51.8** | 50.00 | 0 | 103.7 | 73.1 | 116 | 12/21/2015 |
| Ethyl ether | 5.0 | | **54.0** | 50.00 | 0 | 107.9 | 75.2 | 109 | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **47.7** | 50.00 | 0 | 95.3 | 80.1 | 113 | 12/21/2015 |
| Ethylbenzene | 5.0 | | **46.6** | 50.00 | 0 | 93.3 | 77.2 | 113 | 12/21/2015 |
| Ethyl-tert-butyl ether | 2.0 | | **52.8** | 50.00 | 0 | 105.5 | 75 | 118 | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 77.3 | 123 | 12/21/2015 |
| Hexachloroethane | 10.0 | | **46.8** | 50.00 | 0 | 93.6 | 74.6 | 117 | 12/21/2015 |
| Iodomethane | 5.0 | | **57.1** | 50.00 | 0 | 114.2 | 61.3 | 140 | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 81.3 | 114 | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **93.8** | 100.0 | 0 | 93.8 | 79.6 | 113 | 12/21/2015 |
| Methacrylonitrile | 10.0 | | **53.1** | 50.00 | 0 | 106.3 | 77.2 | 125 | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 74.2 | 121 | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **55.2** | 50.00 | 0 | 110.5 | 76.8 | 117 | 12/21/2015 |
| Methylacrylate | 10.0 | | **56.3** | 50.00 | 0 | 112.5 | 78 | 124 | 12/21/2015 |
| Methylene chloride | 5.0 | | **51.1** | 50.00 | 0 | 102.3 | 74.1 | 114 | 12/21/2015 |
| Naphthalene | 10.0 | | **51.3** | 50.00 | 0 | 102.6 | 77.9 | 122 | 12/21/2015 |
| n-Butyl acetate | 25.0 | | **42.2** | 50.00 | 0 | 84.5 | 74 | 120 | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 71.1 | 120 | 12/21/2015 |
| n-Heptane | 20.0 | | **53.2** | 50.00 | 0 | 106.4 | 67.4 | 129 | 12/21/2015 |
| n-Hexane | 20.0 | | **54.8** | 50.00 | 0 | 109.6 | 68.4 | 126 | 12/21/2015 |
| Nitrobenzene | 50.0 | | **488** | 500.0 | 0 | 97.6 | 37.9 | 181 | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **45.2** | 50.00 | 0 | 90.3 | 74.6 | 118 | 12/21/2015 |
| o-Xylene | 5.0 | | **46.6** | 50.00 | 0 | 93.1 | 80.1 | 111 | 12/21/2015 |
| Pentachloroethane | 20.0 | | **46.3** | 50.00 | 0 | 92.7 | 78.8 | 117 | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **47.2** | 50.00 | 0 | 94.5 | 77.6 | 118 | 12/21/2015 |
| Propionitrile | 50.0 | | **582** | 500.0 | 0 | 116.5 | 72.9 | 137 | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **46.6** | 50.00 | 0 | 93.3 | 74.5 | 119 | 12/21/2015 |
| Styrene | 5.0 | | **48.2** | 50.00 | 0 | 96.3 | 83.4 | 113 | 12/21/2015 |
| tert-Amyl methyl ether | 2.0 | | **53.7** | 50.00 | 0 | 107.3 | 78.7 | 117 | 12/21/2015 |
| tert-Butyl alcohol | 25.0 | | **296** | 250.0 | 0 | 118.5 | 58.1 | 139 | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **42.6** | 50.00 | 0 | 85.1 | 75.9 | 114 | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 72.5 | 125 | 12/21/2015 |
| Tetrahydrofuran | 20.0 | | **49.9** | 50.00 | 0 | 99.8 | 69.6 | 125 | 12/21/2015 |
| Toluene | 5.0 | | **47.0** | 50.00 | 0 | 94.0 | 77.5 | 113 | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 79 | 114 | 12/21/2015 |
| trans-1,3-Dichloropropene | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 78 | 115 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115150** **SampType: LCS** Units **µg/L**

SampID: LCS-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **36.9** | 50.00 | 0 | 73.8 | 63.3 | 128 | 12/21/2015 |
| Trichloroethene | 5.0 | | **55.0** | 50.00 | 0 | 110.0 | 84.4 | 114 | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 75.2 | 132 | 12/21/2015 |
| Vinyl acetate | 10.0 | | **52.1** | 50.00 | 0 | 104.2 | 64.5 | 127 | 12/21/2015 |
| Vinyl chloride | 2.0 | | **39.2** | 50.00 | 0 | 78.4 | 58 | 134 | 12/21/2015 |
| Xylenes, Total | 5.0 | | **140** | 150.0 | 0 | 93.6 | 80.1 | 111 | 12/21/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **106** | 100.0 | 0 | 106.3 | 78.2 | 116 | 12/21/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **105** | 100.0 | 0 | 105.1 | 78 | 119 | 12/21/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **79.6** | 100.0 | 0 | 79.6 | 60.7 | 137 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **41.5** | 50.00 | | 83.0 | 74.7 | 129 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **46.2** | 50.00 | | 92.3 | 86 | 119 | 12/21/2015 |
| Surr: Toluene-d8 | | | **45.0** | 50.00 | | 90.1 | 84.1 | 114 | 12/21/2015 |

**Batch 115150** **SampType: LCSGD** Units **µg/L** RPD Limit **20**

SampID: LCSGD-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1850** | 2000 | 0 | 92.7 | 1980 | 6.58 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **42.2** | 50.00 | | 84.4 | | | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **46.7** | 50.00 | | 93.4 | | | 12/21/2015 |
| Surr: Toluene-d8 | | | **43.9** | 50.00 | | 87.8 | | | 12/21/2015 |

**Batch 115150** **SampType: LCSG** Units **µg/L**

SampID: LCSG-N151221-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1980** | 2000 | 0 | 99.0 | 70 | 130 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **41.9** | 50.00 | | 83.8 | 74.7 | 129 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **47.1** | 50.00 | | 94.2 | 86 | 119 | 12/21/2015 |
| Surr: Toluene-d8 | | | **45.0** | 50.00 | | 90.1 | 84.3 | 114 | 12/21/2015 |

**Batch 115150** **SampType: MS** Units **µg/L**

SampID: 15121391-002BMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 2.0 | | **54.4** | 50.00 | 2.930 | 103.0 | 62.5 | 121 | 12/21/2015 |
| Ethylbenzene | 2.0 | | **42.0** | 50.00 | 0 | 84.0 | 74.4 | 130 | 12/21/2015 |
| m,p-Xylenes | 2.0 | S | **21.6** | 50.00 | 0 | 43.1 | 70.5 | 126 | 12/21/2015 |
| o-Xylene | 2.0 | | **40.4** | 50.00 | 0 | 80.8 | 71.2 | 124 | 12/21/2015 |
| Toluene | 2.0 | | **37.8** | 50.00 | 0 | 75.5 | 69.5 | 118 | 12/21/2015 |
| Xylenes, Total | 5.0 | S | **62.0** | 100.0 | 0 | 62.0 | 71.1 | 125 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **40.4** | 50.00 | | 80.8 | 74.7 | 129 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **45.0** | 50.00 | | 90.1 | 86 | 119 | 12/21/2015 |
| Surr: Toluene-d8 | | | **44.2** | 50.00 | | 88.4 | 84.3 | 114 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115150** **SampType:** **MSD** Units **µg/L** RPD Limit **20**

SampID: 15121391-002BMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 2.0 | | **54.2** | 50.00 | 2.930 | 102.5 | 54.43 | 0.46 | 12/21/2015 |
| Ethylbenzene | 2.0 | | **41.8** | 50.00 | 0 | 83.6 | 41.98 | 0.45 | 12/21/2015 |
| m,p-Xylenes | 2.0 | S | **19.6** | 50.00 | 0 | 39.3 | 21.55 | 9.22 | 12/21/2015 |
| o-Xylene | 2.0 | | **39.6** | 50.00 | 0 | 79.3 | 40.40 | 1.87 | 12/21/2015 |
| Toluene | 2.0 | | **36.0** | 50.00 | 0 | 72.1 | 37.76 | 4.69 | 12/21/2015 |
| Xylenes, Total | 5.0 | S | **59.3** | 100.0 | 0 | 59.3 | 61.95 | 4.37 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **40.6** | 50.00 | | 81.1 | | | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **44.8** | 50.00 | | 89.7 | | | 12/21/2015 |
| Surr: Toluene-d8 | | | **43.7** | 50.00 | | 87.4 | | | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/21/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/21/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/21/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/21/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/21/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/21/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/21/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/21/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/21/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.9** | 50.00 | | 99.8 | 72.2 | 131 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.4 | 82.1 | 116 | 12/21/2015 |
| Surr: Toluene-d8 | | | **49.6** | 50.00 | | 99.3 | 86 | 116 | 12/21/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 83.1 | 114 | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 78.5 | 119 | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 67.4 | 120 | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 75.4 | 121 | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 81.1 | 111 | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **122** | 125.0 | 0 | 97.4 | 55.4 | 131 | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.1** | 50.00 | 0 | 106.1 | 80.1 | 116 | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **54.4** | 50.00 | 0 | 108.7 | 73.1 | 121 | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 82.2 | 114 | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 81.7 | 130 | 12/21/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **48.3** | 50.00 | 0 | 96.6 | 67.8 | 118 | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 82.1 | 127 | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **56.5** | 50.00 | 0 | 112.9 | 72.3 | 141 | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **55.2** | 50.00 | 0 | 110.3 | 79.7 | 123 | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 62.1 | 123 | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.0** | 50.00 | 0 | 95.9 | 82.4 | 112 | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 82.7 | 119 | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 72.8 | 120 | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 80 | 116 | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **53.0** | 50.00 | 0 | 105.9 | 81.5 | 125 | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **55.0** | 50.00 | 0 | 109.9 | 82 | 124 | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.4** | 50.00 | 0 | 98.9 | 79.8 | 113 | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **55.0** | 50.00 | 0 | 110.1 | 81.1 | 124 | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **54.4** | 50.00 | 0 | 108.7 | 77.2 | 113 | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **55.1** | 50.00 | 0 | 110.2 | 76.6 | 121 | 12/21/2015 |
| 2-Butanone | 50.0 | | **141** | 125.0 | 0 | 112.8 | 62.8 | 131 | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **54.5** | 50.00 | 0 | 108.9 | 78.8 | 121 | 12/21/2015 |
| 2-Hexanone | 50.0 | | **134** | 125.0 | 0 | 107.4 | 63.1 | 125 | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **580** | 500.0 | 0 | 115.9 | 61.2 | 129 | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **55.4** | 50.00 | 0 | 110.8 | 77.6 | 124 | 12/21/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **123** | 125.0 | 0 | 98.7 | 60.6 | 126 | 12/21/2015 |
| Acetone | 50.0 | | **168** | 125.0 | 0 | 134.3 | 39.5 | 159 | 12/21/2015 |
| Acetonitrile | 100 | | **533** | 500.0 | 0 | 106.6 | 64.8 | 123 | 12/21/2015 |
| Acrolein | 100 | | **491** | 500.0 | 0 | 98.2 | 1 | 167 | 12/21/2015 |
| Acrylonitrile | 10.0 | | **50.5** | 50.00 | 0 | 101.0 | 67 | 124 | 12/21/2015 |
| Allyl chloride | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 58.5 | 129 | 12/21/2015 |
| Benzene | 1.0 | | **54.2** | 50.00 | 0 | 108.4 | 80.8 | 117 | 12/21/2015 |
| Bromobenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.3 | 79.6 | 117 | 12/21/2015 |
| Bromochloromethane | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 70.7 | 121 | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 80.7 | 121 | 12/21/2015 |
| Bromoform | 5.0 | | **56.1** | 50.00 | 0 | 112.3 | 79.8 | 118 | 12/21/2015 |
| Bromomethane | 10.0 | | **34.3** | 50.00 | 0 | 68.6 | 1 | 175 | 12/21/2015 |
| Carbon disulfide | 5.0 | | **53.3** | 50.00 | 0 | 106.7 | 62.8 | 123 | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **56.3** | 50.00 | 0 | 112.6 | 77.6 | 123 | 12/21/2015 |
| Chlorobenzene | 5.0 | | **54.0** | 50.00 | 0 | 107.9 | 85.6 | 116 | 12/21/2015 |
| Chloroethane | 10.0 | | **52.4** | 50.00 | 0 | 104.8 | 60.2 | 125 | 12/21/2015 |
| Chloroform | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 77.9 | 116 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **42.4** | 50.00 | 0 | 84.7 | 29.9 | 157 | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 80.1 | 116 | 12/21/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **54.2** | 50.00 | 0 | 108.3 | 80.5 | 121 | 12/21/2015 |
| Cyclohexanone | 100 | | **470** | 500.0 | 0 | 94.0 | 45.4 | 128 | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 84.3 | 116 | 12/21/2015 |
| Dibromomethane | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 76.6 | 115 | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **38.9** | 50.00 | 0 | 77.9 | 1 | 200 | 12/21/2015 |
| Diisopropyl ether | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 73.6 | 119 | 12/21/2015 |
| Ethyl ether | 5.0 | | **48.5** | 50.00 | 0 | 97.1 | 73.4 | 116 | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 76.2 | 120 | 12/21/2015 |
| Ethylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 84.8 | 116 | 12/21/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **49.9** | 50.00 | 0 | 99.7 | 73.8 | 119 | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **55.3** | 50.00 | 0 | 110.7 | 74 | 135 | 12/21/2015 |
| Hexachloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 76.4 | 121 | 12/21/2015 |
| Iodomethane | 10.0 | | **46.8** | 50.00 | 0 | 93.5 | 38.7 | 161 | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 85 | 125 | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **111** | 100.0 | 0 | 111.0 | 85.3 | 120 | 12/21/2015 |
| Methacrylonitrile | 50.0 | | **50.6** | 50.00 | 0 | 101.3 | 65.7 | 120 | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 69.1 | 114 | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **48.6** | 50.00 | 0 | 97.3 | 66.6 | 125 | 12/21/2015 |
| Methylacrylate | 10.0 | | **53.4** | 50.00 | 0 | 106.7 | 69.7 | 121 | 12/21/2015 |
| Methylene chloride | 5.0 | | **53.2** | 50.00 | 0 | 106.3 | 73.4 | 115 | 12/21/2015 |
| Naphthalene | 10.0 | | **50.0** | 50.00 | 0 | 100.0 | 70.1 | 134 | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **57.7** | 50.00 | 0 | 115.4 | 78.4 | 138 | 12/21/2015 |
| n-Heptane | 20.0 | | **56.9** | 50.00 | 0 | 113.8 | 74.3 | 125 | 12/21/2015 |
| n-Hexane | 20.0 | | **56.5** | 50.00 | 0 | 112.9 | 66.3 | 129 | 12/21/2015 |
| Nitrobenzene | 100 | | **538** | 500.0 | 0 | 107.5 | 20.1 | 165 | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **55.2** | 50.00 | 0 | 110.5 | 79.1 | 125 | 12/21/2015 |
| o-Xylene | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 81.9 | 118 | 12/21/2015 |
| Pentachloroethane | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 72.7 | 123 | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 82.7 | 129 | 12/21/2015 |
| Propionitrile | 50.0 | | **534** | 500.0 | 0 | 106.9 | 64.3 | 121 | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 81.3 | 125 | 12/21/2015 |
| Styrene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 88.2 | 122 | 12/21/2015 |
| tert-Amyl methyl ether | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 74.5 | 120 | 12/21/2015 |
| tert-Butyl alcohol | 50.0 | | **260** | 250.0 | 0 | 104.0 | 51.3 | 129 | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 74.8 | 125 | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 84.2 | 122 | 12/21/2015 |
| Tetrahydrofuran | 50.0 | J | **49** | 50.00 | 0 | 98.5 | 61 | 118 | 12/21/2015 |
| Toluene | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 81.3 | 113 | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 78.2 | 118 | 12/21/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.4** | 50.00 | 0 | 104.7 | 81.7 | 124 | 12/21/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 63.9 | 117 | 12/21/2015 |
| Trichloroethene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 81 | 123 | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **53.8** | 50.00 | 0 | 107.7 | 66.8 | 131 | 12/21/2015 |
| Vinyl acetate | 50.0 | | **52.6** | 50.00 | 0 | 105.3 | 64.3 | 122 | 12/21/2015 |
| Vinyl chloride | 2.0 | | **50.1** | 50.00 | 0 | 100.2 | 45.2 | 140 | 12/21/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **165** | 150.0 | 0 | 110.1 | 85.3 | 118 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.5** | 50.00 | | 99.1 | 72.2 | 131 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **51.1** | 50.00 | | 102.2 | 82.1 | 116 | 12/21/2015 |
| Surr: Toluene-d8 | | | **47.5** | 50.00 | | 94.9 | 86 | 116 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115107** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 50.75 | 0.73 | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **55.5** | 50.00 | 0 | 111.1 | 54.41 | 2.04 | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 48.89 | 2.48 | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **56.4** | 50.00 | 0 | 112.7 | 55.31 | 1.88 | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 49.01 | 2.10 | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **123** | 125.0 | 0 | 98.4 | 121.8 | 0.96 | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.1 | 53.06 | 0.92 | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **54.5** | 50.00 | 0 | 109.1 | 54.37 | 0.29 | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **56.0** | 50.00 | 0 | 112.0 | 55.32 | 1.24 | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **56.0** | 50.00 | 0 | 112.1 | 54.16 | 3.39 | 12/21/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **50.4** | 50.00 | 0 | 100.8 | 48.29 | 4.30 | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 50.18 | 0.76 | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **56.8** | 50.00 | 0 | 113.7 | 56.46 | 0.67 | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 55.16 | 0.29 | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 48.09 | 2.97 | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 47.96 | 1.45 | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 53.31 | 0.22 | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 52.14 | 2.22 | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **53.9** | 50.00 | 0 | 107.9 | 52.96 | 1.83 | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **52.6** | 50.00 | 0 | 105.2 | 52.97 | 0.68 | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **55.0** | 50.00 | 0 | 110.1 | 54.95 | 0.16 | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 49.44 | 0.83 | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 55.04 | 1.35 | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 54.36 | 0.42 | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 55.12 | 0.83 | 12/21/2015 |
| 2-Butanone | 50.0 | | **150** | 125.0 | 0 | 119.9 | 141.0 | 6.07 | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **54.0** | 50.00 | 0 | 108.1 | 54.47 | 0.77 | 12/21/2015 |
| 2-Hexanone | 50.0 | | **142** | 125.0 | 0 | 113.8 | 134.2 | 5.80 | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **604** | 500.0 | 0 | 120.7 | 579.5 | 4.09 | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 55.39 | 1.22 | 12/21/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **128** | 125.0 | 0 | 102.6 | 123.4 | 3.80 | 12/21/2015 |
| Acetone | 50.0 | | **180** | 125.0 | 0 | 143.9 | 167.9 | 6.92 | 12/21/2015 |
| Acetonitrile | 100 | | **555** | 500.0 | 0 | 111.1 | 533.1 | 4.11 | 12/21/2015 |
| Acrolein | 100 | | **494** | 500.0 | 0 | 98.8 | 491.1 | 0.59 | 12/21/2015 |
| Acrylonitrile | 10.0 | | **51.7** | 50.00 | 0 | 103.3 | 50.51 | 2.27 | 12/21/2015 |
| Allyl chloride | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 53.65 | 0.24 | 12/21/2015 |
| Benzene | 1.0 | | **55.1** | 50.00 | 0 | 110.1 | 54.20 | 1.57 | 12/21/2015 |
| Bromobenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.8 | 50.65 | 1.47 | 12/21/2015 |
| Bromochloromethane | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 52.79 | 0.89 | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **54.0** | 50.00 | 0 | 107.9 | 53.04 | 1.72 | 12/21/2015 |
| Bromoform | 5.0 | | **56.0** | 50.00 | 0 | 111.9 | 56.14 | 0.34 | 12/21/2015 |
| Bromomethane | 10.0 | | **37.0** | 50.00 | 0 | 74.0 | 34.28 | 7.58 | 12/21/2015 |
| Carbon disulfide | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 53.34 | 0.97 | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **57.2** | 50.00 | 0 | 114.5 | 56.28 | 1.67 | 12/21/2015 |
| Chlorobenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 53.97 | 1.23 | 12/21/2015 |
| Chloroethane | 10.0 | | **52.9** | 50.00 | 0 | 105.9 | 52.42 | 0.97 | 12/21/2015 |
| Chloroform | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 53.23 | 1.07 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115107 **SampType:** LCSD Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **42.8** | 50.00 | 0 | 85.6 | 42.35 | 1.03 | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 53.19 | 1.34 | 12/21/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **54.9** | 50.00 | 0 | 109.9 | 54.16 | 1.43 | 12/21/2015 |
| Cyclohexanone | 100 | | **464** | 500.0 | 0 | 92.8 | 470.0 | 1.26 | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 52.09 | 1.07 | 12/21/2015 |
| Dibromomethane | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 51.89 | 2.17 | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **38.0** | 50.00 | 0 | 76.0 | 38.93 | 2.37 | 12/21/2015 |
| Diisopropyl ether | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 49.51 | 2.45 | 12/21/2015 |
| Ethyl ether | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 48.54 | 3.46 | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 50.25 | 2.73 | 12/21/2015 |
| Ethylbenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 52.21 | 1.25 | 12/21/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 49.87 | 2.16 | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **55.9** | 50.00 | 0 | 111.7 | 55.34 | 0.94 | 12/21/2015 |
| Hexachloroethane | 5.0 | | **53.4** | 50.00 | 0 | 106.7 | 53.59 | 0.45 | 12/21/2015 |
| Iodomethane | 10.0 | | **48.3** | 50.00 | 0 | 96.6 | 46.75 | 3.22 | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.7 | 52.59 | 0.46 | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **110** | 100.0 | 0 | 110.0 | 111.0 | 0.90 | 12/21/2015 |
| Methacrylonitrile | 50.0 | | **53.1** | 50.00 | 0 | 106.2 | 50.63 | 4.76 | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 51.79 | 4.73 | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **50.6** | 50.00 | 0 | 101.1 | 48.65 | 3.87 | 12/21/2015 |
| Methylacrylate | 10.0 | | **56.0** | 50.00 | 0 | 111.9 | 53.35 | 4.76 | 12/21/2015 |
| Methylene chloride | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 53.16 | 2.27 | 12/21/2015 |
| Naphthalene | 10.0 | | **51.9** | 50.00 | 0 | 103.7 | 50.02 | 3.63 | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **56.5** | 50.00 | 0 | 112.9 | 57.69 | 2.14 | 12/21/2015 |
| n-Heptane | 20.0 | | **57.4** | 50.00 | 0 | 114.8 | 56.88 | 0.91 | 12/21/2015 |
| n-Hexane | 20.0 | | **56.4** | 50.00 | 0 | 112.8 | 56.47 | 0.12 | 12/21/2015 |
| Nitrobenzene | 100 | | **550** | 500.0 | 0 | 110.0 | 537.7 | 2.25 | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 55.24 | 0.67 | 12/21/2015 |
| o-Xylene | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 54.19 | 0.50 | 12/21/2015 |
| Pentachloroethane | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 53.79 | 9.56 | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 54.03 | 0.59 | 12/21/2015 |
| Propionitrile | 50.0 | | **552** | 500.0 | 0 | 110.5 | 534.4 | 3.31 | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **53.1** | 50.00 | 0 | 106.3 | 53.22 | 0.17 | 12/21/2015 |
| Styrene | 5.0 | | **55.1** | 50.00 | 0 | 110.1 | 55.29 | 0.42 | 12/21/2015 |
| tert-Amyl methyl ether | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 49.84 | 3.18 | 12/21/2015 |
| tert-Butyl alcohol | 50.0 | | **273** | 250.0 | 0 | 109.4 | 259.9 | 5.06 | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.1 | 54.49 | 0.77 | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 49.61 | 8.03 | 12/21/2015 |
| Tetrahydrofuran | 50.0 | | **52.5** | 50.00 | 0 | 105.0 | 49.26 | 6.39 | 12/21/2015 |
| Toluene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 52.62 | 1.57 | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.6** | 50.00 | 0 | 109.1 | 54.31 | 0.48 | 12/21/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.8** | 50.00 | 0 | 105.7 | 52.36 | 0.89 | 12/21/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 50.36 | 3.01 | 12/21/2015 |
| Trichloroethene | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 55.32 | 0.36 | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 53.85 | 0.43 | 12/21/2015 |
| Vinyl acetate | 50.0 | | **52.7** | 50.00 | 0 | 105.4 | 52.63 | 0.15 | 12/21/2015 |
| Vinyl chloride | 2.0 | | **50.5** | 50.00 | 0 | 101.0 | 50.08 | 0.85 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115107** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **164** | 150.0 | 0 | 109.3 | 165.2 | 0.77 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.3** | 50.00 | | 100.6 | | | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.5** | 50.00 | | 101.0 | | | 12/21/2015 |
| Surr: Toluene-d8 | | | **47.6** | 50.00 | | 95.2 | | | 12/21/2015 |

**Batch 115107** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1890** | 2000 | 0 | 94.3 | 70 | 130 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.5** | 50.00 | | 99.1 | 72.2 | 131 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.9** | 50.00 | | 101.8 | 82.1 | 116 | 12/21/2015 |
| Surr: Toluene-d8 | | | **49.3** | 50.00 | | 98.6 | 86 | 116 | 12/21/2015 |

**Batch 115107** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1970** | 2000 | 0 | 98.6 | 1885 | 4.54 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.5** | 50.00 | | 99.0 | | | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.6** | 50.00 | | 101.2 | | | 12/21/2015 |
| Surr: Toluene-d8 | | | **50.1** | 50.00 | | 100.2 | | | 12/21/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115108 **SampType:** MBLK Units **µg/Kg**

SampID: MBLK-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/21/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/21/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/21/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/21/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115108** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/21/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/21/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/21/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/21/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/21/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/21/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/21/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/21/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115108** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/21/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.7** | 50.00 | | 101.3 | 72.2 | 131 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.1** | 50.00 | | 100.2 | 82.1 | 116 | 12/21/2015 |
| Surr: Toluene-d8 | | | **49.8** | 50.00 | | 99.6 | 86 | 116 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115108** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **52.7** | 50.00 | 0 | 105.3 | 53.43 | 1.43 | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 53.20 | 0.15 | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 49.54 | 0.45 | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 50.98 | 3.72 | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **49.5** | 50.00 | 0 | 98.9 | 50.10 | 1.27 | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **122** | 125.0 | 0 | 97.7 | 122.2 | 0.08 | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **52.4** | 50.00 | 0 | 104.7 | 52.74 | 0.74 | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 51.75 | 1.75 | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 54.89 | 2.02 | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 57.22 | 8.62 | 12/21/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **49.2** | 50.00 | 0 | 98.5 | 49.75 | 1.01 | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 54.12 | 4.00 | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 58.14 | 9.65 | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.7 | 55.73 | 4.35 | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 48.72 | 0.94 | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **49.4** | 50.00 | 0 | 98.9 | 50.09 | 1.31 | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 53.75 | 2.33 | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **51.9** | 50.00 | 0 | 103.9 | 52.08 | 0.29 | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 51.24 | 0.68 | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 56.13 | 3.50 | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 54.95 | 3.09 | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 50.76 | 1.09 | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **52.0** | 50.00 | 0 | 103.9 | 54.99 | 5.69 | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 53.44 | 1.02 | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **52.2** | 50.00 | 0 | 104.5 | 52.03 | 0.40 | 12/21/2015 |
| 2-Butanone | 50.0 | | **159** | 125.0 | 0 | 126.9 | 160.5 | 1.20 | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 53.28 | 2.72 | 12/21/2015 |
| 2-Hexanone | 50.0 | | **148** | 125.0 | 0 | 118.3 | 151.8 | 2.63 | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **524** | 500.0 | 0 | 104.9 | 534.7 | 1.94 | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 54.90 | 3.09 | 12/21/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **125** | 125.0 | 0 | 99.6 | 127.8 | 2.63 | 12/21/2015 |
| Acetone | 50.0 | S | **208** | 125.0 | 0 | 166.6 | 205.4 | 1.36 | 12/21/2015 |
| Acetonitrile | 100 | | **544** | 500.0 | 0 | 108.9 | 531.0 | 2.48 | 12/21/2015 |
| Acrolein | 100 | | **466** | 500.0 | 0 | 93.1 | 484.4 | 3.97 | 12/21/2015 |
| Acrylonitrile | 10.0 | | **51.9** | 50.00 | 0 | 103.8 | 50.92 | 1.89 | 12/21/2015 |
| Allyl chloride | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 52.07 | 1.53 | 12/21/2015 |
| Benzene | 1.0 | | **52.5** | 50.00 | 0 | 105.0 | 53.58 | 2.00 | 12/21/2015 |
| Bromobenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.3 | 51.06 | 0.81 | 12/21/2015 |
| Bromochloromethane | 5.0 | | **52.6** | 50.00 | 0 | 105.1 | 53.26 | 1.30 | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **52.1** | 50.00 | 0 | 104.1 | 51.89 | 0.35 | 12/21/2015 |
| Bromoform | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 52.47 | 2.92 | 12/21/2015 |
| Bromomethane | 10.0 | | **32.8** | 50.00 | 0 | 65.7 | 25.50 | 25.16 | 12/21/2015 |
| Carbon disulfide | 5.0 | | **47.7** | 50.00 | 0 | 95.3 | 49.01 | 2.79 | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 54.96 | 1.97 | 12/21/2015 |
| Chlorobenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 52.77 | 2.47 | 12/21/2015 |
| Chloroethane | 10.0 | | **43.2** | 50.00 | 0 | 86.5 | 43.98 | 1.67 | 12/21/2015 |
| Chloroform | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 52.12 | 0.19 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115108** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **36.4** | 50.00 | 0 | 72.9 | 37.65 | 3.29 | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 52.89 | 0.45 | 12/21/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **53.4** | 50.00 | 0 | 106.8 | 53.49 | 0.17 | 12/21/2015 |
| Cyclohexanone | 100 | | **504** | 500.0 | 0 | 100.8 | 517.0 | 2.58 | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 52.20 | 1.78 | 12/21/2015 |
| Dibromomethane | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 53.08 | 2.75 | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **25.6** | 50.00 | 0 | 51.2 | 27.38 | 6.72 | 12/21/2015 |
| Diisopropyl ether | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 50.98 | 0.41 | 12/21/2015 |
| Ethyl ether | 5.0 | | **47.9** | 50.00 | 0 | 95.7 | 48.10 | 0.48 | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **50.9** | 50.00 | 0 | 101.9 | 51.80 | 1.69 | 12/21/2015 |
| Ethylbenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 56.04 | 4.40 | 12/21/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **51.3** | 50.00 | 0 | 102.7 | 51.53 | 0.39 | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 55.47 | 3.34 | 12/21/2015 |
| Hexachloroethane | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 54.95 | 1.60 | 12/21/2015 |
| Iodomethane | 10.0 | | **46.1** | 50.00 | 0 | 92.2 | 43.61 | 5.51 | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 55.73 | 3.51 | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **109** | 100.0 | 0 | 108.6 | 113.7 | 4.56 | 12/21/2015 |
| Methacrylonitrile | 50.0 | | **51.6** | 50.00 | 0 | 103.1 | 51.79 | 0.45 | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 51.97 | 0.17 | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **50.5** | 50.00 | 0 | 101.0 | 51.14 | 1.30 | 12/21/2015 |
| Methylacrylate | 10.0 | | **52.7** | 50.00 | 0 | 105.4 | 54.23 | 2.88 | 12/21/2015 |
| Methylene chloride | 5.0 | | **51.5** | 50.00 | 0 | 103.0 | 52.16 | 1.27 | 12/21/2015 |
| Naphthalene | 10.0 | | **49.9** | 50.00 | 0 | 99.9 | 52.24 | 4.52 | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 60.30 | 7.25 | 12/21/2015 |
| n-Heptane | 20.0 | | **55.7** | 50.00 | 0 | 111.4 | 59.20 | 6.11 | 12/21/2015 |
| n-Hexane | 20.0 | | **53.4** | 50.00 | 0 | 106.9 | 55.74 | 4.19 | 12/21/2015 |
| Nitrobenzene | 100 | | **488** | 500.0 | 0 | 97.5 | 514.4 | 5.33 | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 55.31 | 3.29 | 12/21/2015 |
| o-Xylene | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 53.60 | 2.46 | 12/21/2015 |
| Pentachloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 51.81 | 2.32 | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **55.1** | 50.00 | 0 | 110.2 | 58.56 | 6.12 | 12/21/2015 |
| Propionitrile | 50.0 | | **530** | 500.0 | 0 | 105.9 | 532.8 | 0.59 | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 56.29 | 3.05 | 12/21/2015 |
| Styrene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 53.46 | 2.56 | 12/21/2015 |
| tert-Amyl methyl ether | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 51.02 | 0.20 | 12/21/2015 |
| tert-Butyl alcohol | 50.0 | | **248** | 250.0 | 0 | 99.1 | 255.5 | 3.08 | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.5 | 48.66 | 0.14 | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 54.62 | 3.58 | 12/21/2015 |
| Tetrahydrofuran | 50.0 | J | **49** | 50.00 | 0 | 98.5 | 49.14 | 0.00 | 12/21/2015 |
| Toluene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 53.13 | 4.07 | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 53.89 | 0.22 | 12/21/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.4** | 50.00 | 0 | 104.9 | 53.91 | 2.76 | 12/21/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 52.74 | 1.99 | 12/21/2015 |
| Trichloroethene | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 53.12 | 1.56 | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **49.4** | 50.00 | 0 | 98.9 | 50.23 | 1.57 | 12/21/2015 |
| Vinyl acetate | 50.0 | | **51.7** | 50.00 | 0 | 103.4 | 55.44 | 7.00 | 12/21/2015 |
| Vinyl chloride | 2.0 | | **43.9** | 50.00 | 0 | 87.9 | 45.35 | 3.16 | 12/21/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115108** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **161** | 150.0 | 0 | 107.3 | 167.3 | 3.88 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **52.6** | 50.00 | | 105.2 | | | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.2** | 50.00 | | 98.4 | | | 12/21/2015 |
| Surr: Toluene-d8 | | | **49.1** | 50.00 | | 98.2 | | | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115108** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 83.1 | 114 | 12/21/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 78.5 | 119 | 12/21/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 67.4 | 120 | 12/21/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 75.4 | 121 | 12/21/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 81.1 | 111 | 12/21/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **122** | 125.0 | 0 | 97.8 | 55.4 | 131 | 12/21/2015 |
| 1,1-Dichloroethane | 5.0 | | **52.7** | 50.00 | 0 | 105.5 | 80.1 | 116 | 12/21/2015 |
| 1,1-Dichloroethene | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 73.1 | 121 | 12/21/2015 |
| 1,1-Dichloropropene | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 82.2 | 114 | 12/21/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **57.2** | 50.00 | 0 | 114.4 | 81.7 | 130 | 12/21/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **49.8** | 50.00 | 0 | 99.5 | 67.8 | 118 | 12/21/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 82.1 | 127 | 12/21/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **58.1** | 50.00 | 0 | 116.3 | 72.3 | 141 | 12/21/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **55.7** | 50.00 | 0 | 111.5 | 79.7 | 123 | 12/21/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 62.1 | 123 | 12/21/2015 |
| 1,2-Dibromoethane | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 82.4 | 112 | 12/21/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 82.7 | 119 | 12/21/2015 |
| 1,2-Dichloroethane | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 72.8 | 120 | 12/21/2015 |
| 1,2-Dichloropropane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 80 | 116 | 12/21/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **56.1** | 50.00 | 0 | 112.3 | 81.5 | 125 | 12/21/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **55.0** | 50.00 | 0 | 109.9 | 82 | 124 | 12/21/2015 |
| 1,3-Dichloropropane | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 79.8 | 113 | 12/21/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **55.0** | 50.00 | 0 | 110.0 | 81.1 | 124 | 12/21/2015 |
| 1-Chlorobutane | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 77.2 | 113 | 12/21/2015 |
| 2,2-Dichloropropane | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 76.6 | 121 | 12/21/2015 |
| 2-Butanone | 50.0 | | **161** | 125.0 | 0 | 128.4 | 62.8 | 131 | 12/21/2015 |
| 2-Chlorotoluene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 78.8 | 121 | 12/21/2015 |
| 2-Hexanone | 50.0 | | **152** | 125.0 | 0 | 121.4 | 63.1 | 125 | 12/21/2015 |
| 2-Nitropropane | 50.0 | | **535** | 500.0 | 0 | 106.9 | 61.2 | 129 | 12/21/2015 |
| 4-Chlorotoluene | 5.0 | | **54.9** | 50.00 | 0 | 109.8 | 77.6 | 124 | 12/21/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **128** | 125.0 | 0 | 102.3 | 60.6 | 126 | 12/21/2015 |
| Acetone | 50.0 | S | **205** | 125.0 | 0 | 164.3 | 39.5 | 159 | 12/21/2015 |
| Acetonitrile | 100 | | **531** | 500.0 | 0 | 106.2 | 64.8 | 123 | 12/21/2015 |
| Acrolein | 100 | | **484** | 500.0 | 0 | 96.9 | 1 | 167 | 12/21/2015 |
| Acrylonitrile | 10.0 | | **50.9** | 50.00 | 0 | 101.8 | 67 | 124 | 12/21/2015 |
| Allyl chloride | 5.0 | | **52.1** | 50.00 | 0 | 104.1 | 58.5 | 129 | 12/21/2015 |
| Benzene | 1.0 | | **53.6** | 50.00 | 0 | 107.2 | 80.8 | 117 | 12/21/2015 |
| Bromobenzene | 5.0 | | **51.1** | 50.00 | 0 | 102.1 | 79.6 | 117 | 12/21/2015 |
| Bromochloromethane | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 70.7 | 121 | 12/21/2015 |
| Bromodichloromethane | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 80.7 | 121 | 12/21/2015 |
| Bromoform | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 79.8 | 118 | 12/21/2015 |
| Bromomethane | 10.0 | | **25.5** | 50.00 | 0 | 51.0 | 1 | 175 | 12/21/2015 |
| Carbon disulfide | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 62.8 | 123 | 12/21/2015 |
| Carbon tetrachloride | 5.0 | | **55.0** | 50.00 | 0 | 109.9 | 77.6 | 123 | 12/21/2015 |
| Chlorobenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 85.6 | 116 | 12/21/2015 |
| Chloroethane | 10.0 | | **44.0** | 50.00 | 0 | 88.0 | 60.2 | 125 | 12/21/2015 |
| Chloroform | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 77.9 | 116 | 12/21/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115108** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **37.6** | 50.00 | 0 | 75.3 | 29.9 | 157 | 12/21/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 80.1 | 116 | 12/21/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **53.5** | 50.00 | 0 | 107.0 | 80.5 | 121 | 12/21/2015 |
| Cyclohexanone | 100 | | **517** | 500.0 | 0 | 103.4 | 45.4 | 128 | 12/21/2015 |
| Dibromochloromethane | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 84.3 | 116 | 12/21/2015 |
| Dibromomethane | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 76.6 | 115 | 12/21/2015 |
| Dichlorodifluoromethane | 10.0 | | **27.4** | 50.00 | 0 | 54.8 | 1 | 200 | 12/21/2015 |
| Diisopropyl ether | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 73.6 | 119 | 12/21/2015 |
| Ethyl ether | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 73.4 | 116 | 12/21/2015 |
| Ethyl methacrylate | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 76.2 | 120 | 12/21/2015 |
| Ethylbenzene | 5.0 | | **56.0** | 50.00 | 0 | 112.1 | 84.8 | 116 | 12/21/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **51.5** | 50.00 | 0 | 103.1 | 73.8 | 119 | 12/21/2015 |
| Hexachlorobutadiene | 5.0 | | **55.5** | 50.00 | 0 | 110.9 | 74 | 135 | 12/21/2015 |
| Hexachloroethane | 5.0 | | **55.0** | 50.00 | 0 | 109.9 | 76.4 | 121 | 12/21/2015 |
| Iodomethane | 10.0 | | **43.6** | 50.00 | 0 | 87.2 | 38.7 | 161 | 12/21/2015 |
| Isopropylbenzene | 5.0 | | **55.7** | 50.00 | 0 | 111.5 | 85 | 125 | 12/21/2015 |
| m,p-Xylenes | 5.0 | | **114** | 100.0 | 0 | 113.7 | 85.3 | 120 | 12/21/2015 |
| Methacrylonitrile | 50.0 | | **51.8** | 50.00 | 0 | 103.6 | 65.7 | 120 | 12/21/2015 |
| Methyl Methacrylate | 5.0 | | **52.0** | 50.00 | 0 | 103.9 | 69.1 | 114 | 12/21/2015 |
| Methyl tert-butyl ether | 2.0 | | **51.1** | 50.00 | 0 | 102.3 | 66.6 | 125 | 12/21/2015 |
| Methylacrylate | 10.0 | | **54.2** | 50.00 | 0 | 108.5 | 69.7 | 121 | 12/21/2015 |
| Methylene chloride | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 73.4 | 115 | 12/21/2015 |
| Naphthalene | 10.0 | | **52.2** | 50.00 | 0 | 104.5 | 70.1 | 134 | 12/21/2015 |
| n-Butylbenzene | 5.0 | | **60.3** | 50.00 | 0 | 120.6 | 78.4 | 138 | 12/21/2015 |
| n-Heptane | 20.0 | | **59.2** | 50.00 | 0 | 118.4 | 74.3 | 125 | 12/21/2015 |
| n-Hexane | 20.0 | | **55.7** | 50.00 | 0 | 111.5 | 66.3 | 129 | 12/21/2015 |
| Nitrobenzene | 100 | | **514** | 500.0 | 0 | 102.9 | 20.1 | 165 | 12/21/2015 |
| n-Propylbenzene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 79.1 | 125 | 12/21/2015 |
| o-Xylene | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 81.9 | 118 | 12/21/2015 |
| Pentachloroethane | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 72.7 | 123 | 12/21/2015 |
| p-Isopropyltoluene | 5.0 | | **58.6** | 50.00 | 0 | 117.1 | 82.7 | 129 | 12/21/2015 |
| Propionitrile | 50.0 | | **533** | 500.0 | 0 | 106.6 | 64.3 | 121 | 12/21/2015 |
| sec-Butylbenzene | 5.0 | | **56.3** | 50.00 | 0 | 112.6 | 81.3 | 125 | 12/21/2015 |
| Styrene | 5.0 | | **53.5** | 50.00 | 0 | 106.9 | 88.2 | 122 | 12/21/2015 |
| tert-Amyl methyl ether | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 74.5 | 120 | 12/21/2015 |
| tert-Butyl alcohol | 50.0 | | **255** | 250.0 | 0 | 102.2 | 51.3 | 129 | 12/21/2015 |
| tert-Butylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 74.8 | 125 | 12/21/2015 |
| Tetrachloroethene | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 84.2 | 122 | 12/21/2015 |
| Tetrahydrofuran | 50.0 | J | **49** | 50.00 | 0 | 98.3 | 61 | 118 | 12/21/2015 |
| Toluene | 5.0 | | **53.1** | 50.00 | 0 | 106.3 | 81.3 | 113 | 12/21/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 78.2 | 118 | 12/21/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **53.9** | 50.00 | 0 | 107.8 | 81.7 | 124 | 12/21/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **52.7** | 50.00 | 0 | 105.5 | 63.9 | 117 | 12/21/2015 |
| Trichloroethene | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 81 | 123 | 12/21/2015 |
| Trichlorofluoromethane | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 66.8 | 131 | 12/21/2015 |
| Vinyl acetate | 50.0 | | **55.4** | 50.00 | 0 | 110.9 | 64.3 | 122 | 12/21/2015 |
| Vinyl chloride | 2.0 | | **45.4** | 50.00 | 0 | 90.7 | 45.2 | 140 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115108 **SampType:** LCS Units **µg/Kg**

SampID: LCS-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **167** | 150.0 | 0 | 111.5 | 85.3 | 118 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **53.4** | 50.00 | | 106.8 | 72.2 | 131 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **48.5** | 50.00 | | 97.1 | 82.1 | 116 | 12/21/2015 |
| Surr: Toluene-d8 | | | **49.3** | 50.00 | | 98.7 | 86 | 116 | 12/21/2015 |

**Batch** 115108 **SampType:** LCSGD Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1990** | 2000 | 0 | 99.3 | 2060 | 3.63 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.9** | 50.00 | | 99.9 | | | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.6** | 50.00 | | 101.1 | | | 12/21/2015 |
| Surr: Toluene-d8 | | | **51.0** | 50.00 | | 102.0 | | | 12/21/2015 |

**Batch** 115108 **SampType:** LCSG Units **µg/Kg**

SampID: LCSG-F151221A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **2060** | 2000 | 0 | 103.0 | 70 | 130 | 12/21/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.6** | 50.00 | | 99.2 | 72.2 | 131 | 12/21/2015 |
| Surr: 4-Bromofluorobenzene | | | **53.8** | 50.00 | | 107.6 | 82.1 | 116 | 12/21/2015 |
| Surr: Toluene-d8 | | | **51.9** | 50.00 | | 103.8 | 86 | 116 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/22/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/22/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/22/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/22/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/22/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/22/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/22/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/22/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.8** | 50.00 | | 99.6 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **51.0** | 50.00 | | 101.9 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **48.6** | 50.00 | | 97.2 | 86 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 83.1 | 114 | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **55.9** | 50.00 | 0 | 111.7 | 78.5 | 119 | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 67.4 | 120 | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **56.6** | 50.00 | 0 | 113.1 | 75.4 | 121 | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 81.1 | 111 | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **118** | 125.0 | 0 | 94.5 | 55.4 | 131 | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 80.1 | 116 | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 73.1 | 121 | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **56.7** | 50.00 | 0 | 113.4 | 82.2 | 114 | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 81.7 | 130 | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **48.8** | 50.00 | 0 | 97.7 | 67.8 | 118 | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 82.1 | 127 | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **59.2** | 50.00 | 0 | 118.4 | 72.3 | 141 | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **56.0** | 50.00 | 0 | 112.0 | 79.7 | 123 | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **45.8** | 50.00 | 0 | 91.5 | 62.1 | 123 | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.3** | 50.00 | 0 | 96.5 | 82.4 | 112 | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 82.7 | 119 | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 72.8 | 120 | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **53.3** | 50.00 | 0 | 106.7 | 80 | 116 | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 81.5 | 125 | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 82 | 124 | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 79.8 | 113 | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 81.1 | 124 | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 77.2 | 113 | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **56.7** | 50.00 | 0 | 113.5 | 76.6 | 121 | 12/22/2015 |
| 2-Butanone | 50.0 | | **137** | 125.0 | 0 | 109.4 | 62.8 | 131 | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 78.8 | 121 | 12/22/2015 |
| 2-Hexanone | 50.0 | | **127** | 125.0 | 0 | 101.8 | 63.1 | 125 | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **575** | 500.0 | 0 | 114.9 | 61.2 | 129 | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **56.5** | 50.00 | 0 | 113.1 | 77.6 | 124 | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **121** | 125.0 | 0 | 97.1 | 60.6 | 126 | 12/22/2015 |
| Acetone | 50.0 | | **157** | 125.0 | 0 | 125.4 | 39.5 | 159 | 12/22/2015 |
| Acetonitrile | 100 | | **541** | 500.0 | 0 | 108.2 | 64.8 | 123 | 12/22/2015 |
| Acrolein | 100 | | **518** | 500.0 | 0 | 103.7 | 1 | 167 | 12/22/2015 |
| Acrylonitrile | 10.0 | | **46.6** | 50.00 | 0 | 93.3 | 67 | 124 | 12/22/2015 |
| Allyl chloride | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 58.5 | 129 | 12/22/2015 |
| Benzene | 1.0 | | **55.3** | 50.00 | 0 | 110.5 | 80.8 | 117 | 12/22/2015 |
| Bromobenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 79.6 | 117 | 12/22/2015 |
| Bromochloromethane | 5.0 | | **52.6** | 50.00 | 0 | 105.1 | 70.7 | 121 | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 80.7 | 121 | 12/22/2015 |
| Bromoform | 5.0 | | **55.3** | 50.00 | 0 | 110.5 | 79.8 | 118 | 12/22/2015 |
| Bromomethane | 10.0 | | **45.3** | 50.00 | 0 | 90.6 | 1 | 175 | 12/22/2015 |
| Carbon disulfide | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 62.8 | 123 | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **57.5** | 50.00 | 0 | 115.1 | 77.6 | 123 | 12/22/2015 |
| Chlorobenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 85.6 | 116 | 12/22/2015 |
| Chloroethane | 10.0 | | **51.4** | 50.00 | 0 | 102.9 | 60.2 | 125 | 12/22/2015 |
| Chloroform | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 77.9 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **38.0** | 50.00 | 0 | 75.9 | 29.9 | 157 | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 80.1 | 116 | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **55.0** | 50.00 | 0 | 110.1 | 80.5 | 121 | 12/22/2015 |
| Cyclohexanone | 100 | | **454** | 500.0 | 0 | 90.9 | 45.4 | 128 | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 84.3 | 116 | 12/22/2015 |
| Dibromomethane | 5.0 | | **53.1** | 50.00 | 0 | 106.1 | 76.6 | 115 | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **30.4** | 50.00 | 0 | 60.9 | 1 | 200 | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 73.6 | 119 | 12/22/2015 |
| Ethyl ether | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 73.4 | 116 | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 76.2 | 120 | 12/22/2015 |
| Ethylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 84.8 | 116 | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 73.8 | 119 | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **58.0** | 50.00 | 0 | 116.0 | 74 | 135 | 12/22/2015 |
| Hexachloroethane | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 76.4 | 121 | 12/22/2015 |
| Iodomethane | 10.0 | | **55.8** | 50.00 | 0 | 111.6 | 38.7 | 161 | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 85 | 125 | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **111** | 100.0 | 0 | 110.5 | 85.3 | 120 | 12/22/2015 |
| Methacrylonitrile | 50.0 | | **50.7** | 50.00 | 0 | 101.5 | 65.7 | 120 | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 69.1 | 114 | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **49.6** | 50.00 | 0 | 99.1 | 66.6 | 125 | 12/22/2015 |
| Methylacrylate | 10.0 | | **54.7** | 50.00 | 0 | 109.4 | 69.7 | 121 | 12/22/2015 |
| Methylene chloride | 5.0 | | **53.7** | 50.00 | 0 | 107.5 | 73.4 | 115 | 12/22/2015 |
| Naphthalene | 10.0 | | **50.6** | 50.00 | 0 | 101.3 | 70.1 | 134 | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **58.4** | 50.00 | 0 | 116.9 | 78.4 | 138 | 12/22/2015 |
| n-Heptane | 20.0 | | **57.8** | 50.00 | 0 | 115.6 | 74.3 | 125 | 12/22/2015 |
| n-Hexane | 20.0 | | **57.5** | 50.00 | 0 | 114.9 | 66.3 | 129 | 12/22/2015 |
| Nitrobenzene | 100 | | **488** | 500.0 | 0 | 97.6 | 20.1 | 165 | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **56.5** | 50.00 | 0 | 112.9 | 79.1 | 125 | 12/22/2015 |
| o-Xylene | 5.0 | | **54.6** | 50.00 | 0 | 109.3 | 81.9 | 118 | 12/22/2015 |
| Pentachloroethane | 5.0 | | **57.4** | 50.00 | 0 | 114.9 | 72.7 | 123 | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 82.7 | 129 | 12/22/2015 |
| Propionitrile | 50.0 | | **533** | 500.0 | 0 | 106.5 | 64.3 | 121 | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 81.3 | 125 | 12/22/2015 |
| Styrene | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 88.2 | 122 | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 74.5 | 120 | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **260** | 250.0 | 0 | 103.9 | 51.3 | 129 | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 74.8 | 125 | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 84.2 | 122 | 12/22/2015 |
| Tetrahydrofuran | 50.0 | | **50.8** | 50.00 | 0 | 101.6 | 61 | 118 | 12/22/2015 |
| Toluene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 81.3 | 113 | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.6** | 50.00 | 0 | 109.1 | 78.2 | 118 | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.6** | 50.00 | 0 | 105.3 | 81.7 | 124 | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 63.9 | 117 | 12/22/2015 |
| Trichloroethene | 5.0 | | **56.6** | 50.00 | 0 | 113.2 | 81 | 123 | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 66.8 | 131 | 12/22/2015 |
| Vinyl acetate | 50.0 | | **53.9** | 50.00 | 0 | 107.8 | 64.3 | 122 | 12/22/2015 |
| Vinyl chloride | 2.0 | | **46.1** | 50.00 | 0 | 92.2 | 45.2 | 140 | 12/22/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **165** | 150.0 | 0 | 110.1 | 85.3 | 118 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.3** | 50.00 | | 98.6 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.2** | 50.00 | | 100.5 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **46.8** | 50.00 | | 93.5 | 86 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 51.62 | 3.55 | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 55.86 | 5.37 | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.6** | 50.00 | 0 | 97.1 | 48.91 | 0.70 | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 56.55 | 6.63 | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 49.38 | 0.81 | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **124** | 125.0 | 0 | 99.1 | 118.1 | 4.77 | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 53.62 | 5.17 | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **50.9** | 50.00 | 0 | 101.7 | 53.76 | 5.54 | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 56.69 | 6.01 | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 55.80 | 3.06 | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **48.4** | 50.00 | 0 | 96.9 | 48.83 | 0.82 | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 50.32 | 3.17 | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 59.22 | 5.43 | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 55.99 | 4.70 | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 45.75 | 2.89 | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 48.27 | 0.06 | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 54.21 | 4.89 | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 53.10 | 2.04 | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 53.34 | 2.20 | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 53.45 | 5.24 | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 55.80 | 4.70 | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.2** | 50.00 | 0 | 98.5 | 49.75 | 1.05 | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 56.10 | 4.78 | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **52.2** | 50.00 | 0 | 104.5 | 54.62 | 4.44 | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 56.74 | 6.08 | 12/22/2015 |
| 2-Butanone | 50.0 | | **122** | 125.0 | 0 | 97.6 | 136.8 | 11.38 | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 55.30 | 5.58 | 12/22/2015 |
| 2-Hexanone | 50.0 | | **114** | 125.0 | 0 | 91.5 | 127.3 | 10.73 | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **592** | 500.0 | 0 | 118.4 | 574.6 | 3.02 | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **52.7** | 50.00 | 0 | 105.5 | 56.54 | 6.97 | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **124** | 125.0 | 0 | 99.4 | 121.3 | 2.33 | 12/22/2015 |
| Acetone | 50.0 | | **121** | 125.0 | 0 | 96.6 | 156.7 | 25.95 | 12/22/2015 |
| Acetonitrile | 100 | | **554** | 500.0 | 0 | 110.9 | 541.0 | 2.43 | 12/22/2015 |
| Acrolein | 100 | | **496** | 500.0 | 0 | 99.2 | 518.4 | 4.45 | 12/22/2015 |
| Acrylonitrile | 10.0 | | **50.7** | 50.00 | 0 | 101.3 | 46.63 | 8.30 | 12/22/2015 |
| Allyl chloride | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 52.38 | 3.18 | 12/22/2015 |
| Benzene | 1.0 | | **53.2** | 50.00 | 0 | 106.4 | 55.27 | 3.78 | 12/22/2015 |
| Bromobenzene | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 50.92 | 4.09 | 12/22/2015 |
| Bromochloromethane | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 52.56 | 1.75 | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 53.68 | 2.55 | 12/22/2015 |
| Bromoform | 5.0 | | **54.8** | 50.00 | 0 | 109.6 | 55.26 | 0.82 | 12/22/2015 |
| Bromomethane | 10.0 | | **43.7** | 50.00 | 0 | 87.4 | 45.31 | 3.62 | 12/22/2015 |
| Carbon disulfide | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 51.99 | 5.82 | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 57.54 | 5.59 | 12/22/2015 |
| Chlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 54.16 | 3.17 | 12/22/2015 |
| Chloroethane | 10.0 | | **48.4** | 50.00 | 0 | 96.7 | 51.45 | 6.19 | 12/22/2015 |
| Chloroform | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 54.41 | 4.28 | 12/22/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **36.1** | 50.00 | 0 | 72.1 | 37.96 | 5.11 | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 54.28 | 4.46 | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **53.7** | 50.00 | 0 | 107.4 | 55.03 | 2.47 | 12/22/2015 |
| Cyclohexanone | 100 | | **476** | 500.0 | 0 | 95.2 | 454.4 | 4.70 | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 52.09 | 0.83 | 12/22/2015 |
| Dibromomethane | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 53.06 | 1.63 | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **28.0** | 50.00 | 0 | 56.0 | 30.43 | 8.35 | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 49.63 | 2.67 | 12/22/2015 |
| Ethyl ether | 5.0 | | **48.2** | 50.00 | 0 | 96.3 | 48.99 | 1.73 | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 50.41 | 0.55 | 12/22/2015 |
| Ethylbenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 51.80 | 4.14 | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 50.41 | 2.23 | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 58.02 | 6.64 | 12/22/2015 |
| Hexachloroethane | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 53.26 | 4.34 | 12/22/2015 |
| Iodomethane | 10.0 | | **52.8** | 50.00 | 0 | 105.6 | 55.79 | 5.49 | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 52.77 | 4.44 | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **106** | 100.0 | 0 | 106.0 | 110.5 | 4.18 | 12/22/2015 |
| Methacrylonitrile | 50.0 | | **51.4** | 50.00 | 0 | 102.7 | 50.74 | 1.20 | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 52.15 | 1.43 | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **49.3** | 50.00 | 0 | 98.6 | 49.55 | 0.55 | 12/22/2015 |
| Methylacrylate | 10.0 | | **55.7** | 50.00 | 0 | 111.4 | 54.72 | 1.78 | 12/22/2015 |
| Methylene chloride | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 53.74 | 4.84 | 12/22/2015 |
| Naphthalene | 10.0 | | **50.1** | 50.00 | 0 | 100.2 | 50.63 | 1.05 | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **55.1** | 50.00 | 0 | 110.1 | 58.45 | 5.95 | 12/22/2015 |
| n-Heptane | 20.0 | | **54.3** | 50.00 | 0 | 108.7 | 57.78 | 6.14 | 12/22/2015 |
| n-Hexane | 20.0 | | **53.6** | 50.00 | 0 | 107.2 | 57.47 | 7.01 | 12/22/2015 |
| Nitrobenzene | 100 | | **497** | 500.0 | 0 | 99.4 | 487.8 | 1.89 | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 56.46 | 5.81 | 12/22/2015 |
| o-Xylene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 54.65 | 3.29 | 12/22/2015 |
| Pentachloroethane | 5.0 | | **55.7** | 50.00 | 0 | 111.3 | 57.44 | 3.13 | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 54.38 | 5.11 | 12/22/2015 |
| Propionitrile | 50.0 | | **553** | 500.0 | 0 | 110.6 | 532.6 | 3.78 | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 53.32 | 4.90 | 12/22/2015 |
| Styrene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 55.60 | 2.88 | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 50.91 | 1.27 | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **275** | 250.0 | 0 | 110.0 | 259.6 | 5.73 | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **51.3** | 50.00 | 0 | 102.5 | 54.60 | 6.29 | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **46.0** | 50.00 | 0 | 92.0 | 49.30 | 6.90 | 12/22/2015 |
| Tetrahydrofuran | 50.0 | | **51.6** | 50.00 | 0 | 103.2 | 50.79 | 1.54 | 12/22/2015 |
| Toluene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 51.90 | 2.77 | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 54.55 | 4.56 | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.2** | 50.00 | 0 | 104.3 | 52.64 | 0.94 | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 50.09 | 0.32 | 12/22/2015 |
| Trichloroethene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 56.60 | 4.11 | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 53.69 | 6.74 | 12/22/2015 |
| Vinyl acetate | 50.0 | | **55.7** | 50.00 | 0 | 111.5 | 53.91 | 3.32 | 12/22/2015 |
| Vinyl chloride | 2.0 | | **43.0** | 50.00 | 0 | 86.1 | 46.11 | 6.91 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115156** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **159** | 150.0 | 0 | 105.9 | 165.2 | 3.88 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.4** | 50.00 | | 98.8 | | | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.9** | 50.00 | | 99.9 | | | 12/22/2015 |
| Surr: Toluene-d8 | | | **47.4** | 50.00 | | 94.8 | | | 12/22/2015 |

**Batch 115156** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1850** | 2000 | 0 | 92.5 | 70 | 130 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.2** | 50.00 | | 98.4 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **51.9** | 50.00 | | 103.8 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **49.3** | 50.00 | | 98.6 | 86 | 116 | 12/22/2015 |

**Batch 115156** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1910** | 2000 | 0 | 95.4 | 1850 | 3.12 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.6** | 50.00 | | 99.2 | | | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.5** | 50.00 | | 101.0 | | | 12/22/2015 |
| Surr: Toluene-d8 | | | **49.1** | 50.00 | | 98.2 | | | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/23/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/23/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/23/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/23/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/23/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/23/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/23/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/23/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/23/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/23/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/23/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/23/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/23/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/23/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.7** | 50.00 | | 101.5 | 72.2 | 131 | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.0** | 50.00 | | 98.0 | 82.1 | 116 | 12/23/2015 |
| Surr: Toluene-d8 | | | **48.0** | 50.00 | | 96.1 | 86 | 116 | 12/23/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121421

**Client Project:** NGA 2015-0461.21

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 83.1 | 114 | 12/23/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 78.5 | 119 | 12/23/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **45.0** | 50.00 | 0 | 90.1 | 67.4 | 120 | 12/23/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 75.4 | 121 | 12/23/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **46.3** | 50.00 | 0 | 92.6 | 81.1 | 111 | 12/23/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **112** | 125.0 | 0 | 89.9 | 55.4 | 131 | 12/23/2015 |
| 1,1-Dichloroethane | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 80.1 | 116 | 12/23/2015 |
| 1,1-Dichloroethene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 73.1 | 121 | 12/23/2015 |
| 1,1-Dichloropropene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 82.2 | 114 | 12/23/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 81.7 | 130 | 12/23/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **45.4** | 50.00 | 0 | 90.7 | 67.8 | 118 | 12/23/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **46.2** | 50.00 | 0 | 92.3 | 82.1 | 127 | 12/23/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 72.3 | 141 | 12/23/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 79.7 | 123 | 12/23/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **43.7** | 50.00 | 0 | 87.4 | 62.1 | 123 | 12/23/2015 |
| 1,2-Dibromoethane | 5.0 | | **44.8** | 50.00 | 0 | 89.7 | 82.4 | 112 | 12/23/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 82.7 | 119 | 12/23/2015 |
| 1,2-Dichloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.7 | 72.8 | 120 | 12/23/2015 |
| 1,2-Dichloropropane | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 80 | 116 | 12/23/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 81.5 | 125 | 12/23/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 82 | 124 | 12/23/2015 |
| 1,3-Dichloropropane | 5.0 | | **45.9** | 50.00 | 0 | 91.8 | 79.8 | 113 | 12/23/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.3 | 81.1 | 124 | 12/23/2015 |
| 1-Chlorobutane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 77.2 | 113 | 12/23/2015 |
| 2,2-Dichloropropane | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 76.6 | 121 | 12/23/2015 |
| 2-Butanone | 50.0 | | **133** | 125.0 | 0 | 106.2 | 62.8 | 131 | 12/23/2015 |
| 2-Chlorotoluene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 78.8 | 121 | 12/23/2015 |
| 2-Hexanone | 50.0 | | **127** | 125.0 | 0 | 101.3 | 63.1 | 125 | 12/23/2015 |
| 2-Nitropropane | 50.0 | | **547** | 500.0 | 0 | 109.5 | 61.2 | 129 | 12/23/2015 |
| 4-Chlorotoluene | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 77.6 | 124 | 12/23/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **114** | 125.0 | 0 | 91.6 | 60.6 | 126 | 12/23/2015 |
| Acetone | 50.0 | | **155** | 125.0 | 0 | 124.3 | 39.5 | 159 | 12/23/2015 |
| Acetonitrile | 100 | | **518** | 500.0 | 0 | 103.5 | 64.8 | 123 | 12/23/2015 |
| Acrolein | 100 | | **557** | 500.0 | 0 | 111.3 | 1 | 167 | 12/23/2015 |
| Acrylonitrile | 10.0 | | **48.1** | 50.00 | 0 | 96.2 | 67 | 124 | 12/23/2015 |
| Allyl chloride | 5.0 | | **47.9** | 50.00 | 0 | 95.7 | 58.5 | 129 | 12/23/2015 |
| Benzene | 1.0 | | **51.5** | 50.00 | 0 | 102.9 | 80.8 | 117 | 12/23/2015 |
| Bromobenzene | 5.0 | | **47.0** | 50.00 | 0 | 94.0 | 79.6 | 117 | 12/23/2015 |
| Bromochloromethane | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 70.7 | 121 | 12/23/2015 |
| Bromodichloromethane | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 80.7 | 121 | 12/23/2015 |
| Bromoform | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 79.8 | 118 | 12/23/2015 |
| Bromomethane | 10.0 | | **45.8** | 50.00 | 0 | 91.6 | 1 | 175 | 12/23/2015 |
| Carbon disulfide | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 62.8 | 123 | 12/23/2015 |
| Carbon tetrachloride | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 77.6 | 123 | 12/23/2015 |
| Chlorobenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.9 | 85.6 | 116 | 12/23/2015 |
| Chloroethane | 10.0 | | **45.6** | 50.00 | 0 | 91.2 | 60.2 | 125 | 12/23/2015 |
| Chloroform | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 77.9 | 116 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **34.0** | 50.00 | 0 | 67.9 | 29.9 | 157 | 12/23/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **51.0** | 50.00 | 0 | 102.1 | 80.1 | 116 | 12/23/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **51.6** | 50.00 | 0 | 103.2 | 80.5 | 121 | 12/23/2015 |
| Cyclohexanone | 100 | | **440** | 500.0 | 0 | 88.0 | 45.4 | 128 | 12/23/2015 |
| Dibromochloromethane | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 84.3 | 116 | 12/23/2015 |
| Dibromomethane | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 76.6 | 115 | 12/23/2015 |
| Dichlorodifluoromethane | 10.0 | | **23.5** | 50.00 | 0 | 47.0 | 1 | 200 | 12/23/2015 |
| Diisopropyl ether | 5.0 | | **46.8** | 50.00 | 0 | 93.5 | 73.6 | 119 | 12/23/2015 |
| Ethyl ether | 5.0 | | **45.6** | 50.00 | 0 | 91.2 | 73.4 | 116 | 12/23/2015 |
| Ethyl methacrylate | 5.0 | | **46.7** | 50.00 | 0 | 93.3 | 76.2 | 120 | 12/23/2015 |
| Ethylbenzene | 5.0 | | **48.6** | 50.00 | 0 | 97.3 | 84.8 | 116 | 12/23/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 73.8 | 119 | 12/23/2015 |
| Hexachlorobutadiene | 5.0 | | **50.9** | 50.00 | 0 | 101.9 | 74 | 135 | 12/23/2015 |
| Hexachloroethane | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 76.4 | 121 | 12/23/2015 |
| Iodomethane | 10.0 | | **51.7** | 50.00 | 0 | 103.4 | 38.7 | 161 | 12/23/2015 |
| Isopropylbenzene | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 85 | 125 | 12/23/2015 |
| m,p-Xylenes | 5.0 | | **103** | 100.0 | 0 | 103.0 | 85.3 | 120 | 12/23/2015 |
| Methacrylonitrile | 50.0 | J | **48** | 50.00 | 0 | 95.4 | 65.7 | 120 | 12/23/2015 |
| Methyl Methacrylate | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 69.1 | 114 | 12/23/2015 |
| Methyl tert-butyl ether | 2.0 | | **46.3** | 50.00 | 0 | 92.6 | 66.6 | 125 | 12/23/2015 |
| Methylacrylate | 10.0 | | **50.1** | 50.00 | 0 | 100.2 | 69.7 | 121 | 12/23/2015 |
| Methylene chloride | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 73.4 | 115 | 12/23/2015 |
| Naphthalene | 10.0 | | **45.2** | 50.00 | 0 | 90.5 | 70.1 | 134 | 12/23/2015 |
| n-Butylbenzene | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 78.4 | 138 | 12/23/2015 |
| n-Heptane | 20.0 | | **54.5** | 50.00 | 0 | 109.1 | 74.3 | 125 | 12/23/2015 |
| n-Hexane | 20.0 | | **52.3** | 50.00 | 0 | 104.6 | 66.3 | 129 | 12/23/2015 |
| Nitrobenzene | 100 | | **422** | 500.0 | 0 | 84.4 | 20.1 | 165 | 12/23/2015 |
| n-Propylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 79.1 | 125 | 12/23/2015 |
| o-Xylene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 81.9 | 118 | 12/23/2015 |
| Pentachloroethane | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 72.7 | 123 | 12/23/2015 |
| p-Isopropyltoluene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 82.7 | 129 | 12/23/2015 |
| Propionitrile | 50.0 | | **510** | 500.0 | 0 | 102.0 | 64.3 | 121 | 12/23/2015 |
| sec-Butylbenzene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 81.3 | 125 | 12/23/2015 |
| Styrene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 88.2 | 122 | 12/23/2015 |
| tert-Amyl methyl ether | 5.0 | | **47.8** | 50.00 | 0 | 95.5 | 74.5 | 120 | 12/23/2015 |
| tert-Butyl alcohol | 50.0 | | **249** | 250.0 | 0 | 99.6 | 51.3 | 129 | 12/23/2015 |
| tert-Butylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 74.8 | 125 | 12/23/2015 |
| Tetrachloroethene | 5.0 | | **47.4** | 50.00 | 0 | 94.7 | 84.2 | 122 | 12/23/2015 |
| Tetrahydrofuran | 50.0 | J | **48** | 50.00 | 0 | 95.1 | 61 | 118 | 12/23/2015 |
| Toluene | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 81.3 | 113 | 12/23/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **51.3** | 50.00 | 0 | 102.5 | 78.2 | 118 | 12/23/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **48.5** | 50.00 | 0 | 97.0 | 81.7 | 124 | 12/23/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 63.9 | 117 | 12/23/2015 |
| Trichloroethene | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 81 | 123 | 12/23/2015 |
| Trichlorofluoromethane | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 66.8 | 131 | 12/23/2015 |
| Vinyl acetate | 50.0 | | **51.1** | 50.00 | 0 | 102.1 | 64.3 | 122 | 12/23/2015 |
| Vinyl chloride | 2.0 | | **42.2** | 50.00 | 0 | 84.3 | 45.2 | 140 | 12/23/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **154** | 150.0 | 0 | 102.7 | 85.3 | 118 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.0** | 50.00 | | 98.1 | 72.2 | 131 | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.3 | 82.1 | 116 | 12/23/2015 |
| Surr: Toluene-d8 | | | **47.1** | 50.00 | | 94.2 | 86 | 116 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 47.91 | 5.48 | 12/23/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **55.3** | 50.00 | 0 | 110.5 | 52.51 | 5.12 | 12/23/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 45.05 | 6.38 | 12/23/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 51.25 | 4.28 | 12/23/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 46.31 | 7.86 | 12/23/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **122** | 125.0 | 0 | 97.8 | 112.3 | 8.51 | 12/23/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 50.00 | 7.10 | 12/23/2015 |
| 1,1-Dichloroethene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 50.08 | 6.27 | 12/23/2015 |
| 1,1-Dichloropropene | 5.0 | | **55.0** | 50.00 | 0 | 110.0 | 52.47 | 4.73 | 12/23/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 49.69 | 7.25 | 12/23/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **48.3** | 50.00 | 0 | 96.6 | 45.36 | 6.26 | 12/23/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 46.17 | 4.94 | 12/23/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **55.1** | 50.00 | 0 | 110.3 | 52.13 | 5.59 | 12/23/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 51.36 | 2.67 | 12/23/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 43.70 | 8.08 | 12/23/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 44.85 | 7.16 | 12/23/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.1 | 48.75 | 5.56 | 12/23/2015 |
| 1,2-Dichloroethane | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 50.34 | 6.76 | 12/23/2015 |
| 1,2-Dichloropropane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 50.26 | 6.58 | 12/23/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 49.53 | 2.33 | 12/23/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 51.57 | 1.71 | 12/23/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 45.88 | 7.59 | 12/23/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 50.66 | 3.55 | 12/23/2015 |
| 1-Chlorobutane | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 51.61 | 4.30 | 12/23/2015 |
| 2,2-Dichloropropane | 5.0 | | **56.8** | 50.00 | 0 | 113.6 | 52.78 | 7.30 | 12/23/2015 |
| 2-Butanone | 50.0 | | **141** | 125.0 | 0 | 113.1 | 132.8 | 6.27 | 12/23/2015 |
| 2-Chlorotoluene | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 50.30 | 2.75 | 12/23/2015 |
| 2-Hexanone | 50.0 | | **129** | 125.0 | 0 | 103.1 | 126.6 | 1.79 | 12/23/2015 |
| 2-Nitropropane | 50.0 | | **611** | 500.0 | 0 | 122.2 | 547.3 | 11.01 | 12/23/2015 |
| 4-Chlorotoluene | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 51.18 | 2.89 | 12/23/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **124** | 125.0 | 0 | 99.1 | 114.5 | 7.84 | 12/23/2015 |
| Acetone | 50.0 | | **156** | 125.0 | 0 | 125.1 | 155.3 | 0.67 | 12/23/2015 |
| Acetonitrile | 100 | | **578** | 500.0 | 0 | 115.7 | 517.7 | 11.06 | 12/23/2015 |
| Acrolein | 100 | | **538** | 500.0 | 0 | 107.6 | 556.7 | 3.46 | 12/23/2015 |
| Acrylonitrile | 10.0 | | **54.0** | 50.00 | 0 | 108.0 | 48.11 | 11.54 | 12/23/2015 |
| Allyl chloride | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 47.87 | 5.78 | 12/23/2015 |
| Benzene | 1.0 | | **54.8** | 50.00 | 0 | 109.6 | 51.46 | 6.27 | 12/23/2015 |
| Bromobenzene | 5.0 | | **48.5** | 50.00 | 0 | 96.9 | 47.02 | 3.02 | 12/23/2015 |
| Bromochloromethane | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 50.24 | 7.68 | 12/23/2015 |
| Bromodichloromethane | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 50.57 | 6.95 | 12/23/2015 |
| Bromoform | 5.0 | | **55.5** | 50.00 | 0 | 110.9 | 51.18 | 8.03 | 12/23/2015 |
| Bromomethane | 10.0 | | **48.1** | 50.00 | 0 | 96.2 | 45.79 | 4.94 | 12/23/2015 |
| Carbon disulfide | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 47.48 | 4.79 | 12/23/2015 |
| Carbon tetrachloride | 5.0 | | **56.9** | 50.00 | 0 | 113.7 | 53.05 | 6.93 | 12/23/2015 |
| Chlorobenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 50.43 | 3.91 | 12/23/2015 |
| Chloroethane | 10.0 | | **48.9** | 50.00 | 0 | 97.8 | 45.60 | 6.96 | 12/23/2015 |
| Chloroform | 5.0 | | **54.1** | 50.00 | 0 | 108.3 | 50.91 | 6.13 | 12/23/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **36.8** | 50.00 | 0 | 73.6 | 33.97 | 8.02 | 12/23/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 51.05 | 6.06 | 12/23/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **55.7** | 50.00 | 0 | 111.3 | 51.61 | 7.55 | 12/23/2015 |
| Cyclohexanone | 100 | | **479** | 500.0 | 0 | 95.8 | 440.0 | 8.49 | 12/23/2015 |
| Dibromochloromethane | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 47.79 | 7.78 | 12/23/2015 |
| Dibromomethane | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 49.04 | 8.94 | 12/23/2015 |
| Dichlorodifluoromethane | 10.0 | | **23.8** | 50.00 | 0 | 47.7 | 23.50 | 1.44 | 12/23/2015 |
| Diisopropyl ether | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 46.77 | 7.09 | 12/23/2015 |
| Ethyl ether | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 45.58 | 7.29 | 12/23/2015 |
| Ethyl methacrylate | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 46.67 | 8.00 | 12/23/2015 |
| Ethylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 48.65 | 4.11 | 12/23/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 47.09 | 7.87 | 12/23/2015 |
| Hexachlorobutadiene | 5.0 | | **54.1** | 50.00 | 0 | 108.3 | 50.94 | 6.07 | 12/23/2015 |
| Hexachloroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 49.58 | 3.16 | 12/23/2015 |
| Iodomethane | 10.0 | | **54.6** | 50.00 | 0 | 109.1 | 51.68 | 5.40 | 12/23/2015 |
| Isopropylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 49.49 | 5.25 | 12/23/2015 |
| m,p-Xylenes | 5.0 | | **109** | 100.0 | 0 | 109.0 | 103.0 | 5.60 | 12/23/2015 |
| Methacrylonitrile | 50.0 | | **53.2** | 50.00 | 0 | 106.3 | 47.72 | 10.80 | 12/23/2015 |
| Methyl Methacrylate | 5.0 | | **54.1** | 50.00 | 0 | 108.1 | 49.42 | 8.99 | 12/23/2015 |
| Methyl tert-butyl ether | 2.0 | | **50.5** | 50.00 | 0 | 101.0 | 46.29 | 8.72 | 12/23/2015 |
| Methylacrylate | 10.0 | | **56.8** | 50.00 | 0 | 113.6 | 50.11 | 12.55 | 12/23/2015 |
| Methylene chloride | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 50.59 | 7.83 | 12/23/2015 |
| Naphthalene | 10.0 | | **49.7** | 50.00 | 0 | 99.4 | 45.25 | 9.33 | 12/23/2015 |
| n-Butylbenzene | 5.0 | | **54.7** | 50.00 | 0 | 109.3 | 53.81 | 1.57 | 12/23/2015 |
| n-Heptane | 20.0 | | **55.0** | 50.00 | 0 | 110.0 | 54.54 | 0.82 | 12/23/2015 |
| n-Hexane | 20.0 | | **53.5** | 50.00 | 0 | 107.0 | 52.30 | 2.29 | 12/23/2015 |
| Nitrobenzene | 100 | | **485** | 500.0 | 0 | 97.0 | 422.0 | 13.88 | 12/23/2015 |
| n-Propylbenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 51.44 | 2.61 | 12/23/2015 |
| o-Xylene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 51.00 | 5.73 | 12/23/2015 |
| Pentachloroethane | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 50.98 | 5.61 | 12/23/2015 |
| p-Isopropyltoluene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 50.72 | 2.09 | 12/23/2015 |
| Propionitrile | 50.0 | | **571** | 500.0 | 0 | 114.2 | 509.9 | 11.27 | 12/23/2015 |
| sec-Butylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 49.38 | 3.95 | 12/23/2015 |
| Styrene | 5.0 | | **55.1** | 50.00 | 0 | 110.3 | 51.79 | 6.25 | 12/23/2015 |
| tert-Amyl methyl ether | 5.0 | | **51.9** | 50.00 | 0 | 103.7 | 47.75 | 8.25 | 12/23/2015 |
| tert-Butyl alcohol | 50.0 | | **284** | 250.0 | 0 | 113.7 | 249.0 | 13.21 | 12/23/2015 |
| tert-Butylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 50.74 | 2.74 | 12/23/2015 |
| Tetrachloroethene | 5.0 | | **46.4** | 50.00 | 0 | 92.8 | 47.35 | 2.01 | 12/23/2015 |
| Tetrahydrofuran | 50.0 | | **54.0** | 50.00 | 0 | 108.1 | 47.55 | 12.78 | 12/23/2015 |
| Toluene | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 48.39 | 4.92 | 12/23/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 51.27 | 5.22 | 12/23/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.0** | 50.00 | 0 | 104.1 | 48.48 | 7.10 | 12/23/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 46.82 | 3.87 | 12/23/2015 |
| Trichloroethene | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 53.08 | 4.42 | 12/23/2015 |
| Trichlorofluoromethane | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 48.30 | 6.95 | 12/23/2015 |
| Vinyl acetate | 50.0 | | **58.4** | 50.00 | 0 | 116.7 | 51.07 | 13.34 | 12/23/2015 |
| Vinyl chloride | 2.0 | | **44.7** | 50.00 | 0 | 89.5 | 42.16 | 5.92 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121421

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115190** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **163** | 150.0 | 0 | 108.7 | 154.0 | 5.65 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.6** | 50.00 | | 101.1 | | | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.9** | 50.00 | | 99.8 | | | 12/23/2015 |
| Surr: Toluene-d8 | | | **47.2** | 50.00 | | 94.3 | | | 12/23/2015 |

**Batch 115190** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1840** | 2000 | 0 | 91.9 | 70 | 130 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.5** | 50.00 | | 100.9 | 72.2 | 131 | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.8** | 50.00 | | 99.6 | 82.1 | 116 | 12/23/2015 |
| Surr: Toluene-d8 | | | **48.7** | 50.00 | | 97.4 | 86 | 116 | 12/23/2015 |

**Batch 115190** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1730** | 2000 | 0 | 86.6 | 1839 | 5.99 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.7** | 50.00 | | 101.5 | | | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.5** | 50.00 | | 99.1 | | | 12/23/2015 |
| Surr: Toluene-d8 | | | **48.3** | 50.00 | | 96.6 | | | 12/23/2015 |

# Receiving Check List

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121421
**Report Date:** 28-Dec-15

**Carrier:** Matt Wood

**Received By:** MLD

**Completed by:** Emily Pohlman
**On:** 18-Dec-15

**Reviewed by:** Elizabeth A. Hurley
**On:** 18-Dec-15

**Pages to follow:** Chain of custody 2 Extra pages included 0

| | | | | |
|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ | Temp °C 5.22 |
| Type of thermal preservation? | None ☐ | Ice ☑ | Blue Ice ☐ | Dry Ice ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | | |
| Chain of custody agrees with sample labels? | Yes ☐ | No ☑ | | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | | |
| Sample containers intact? | Yes ☑ | No ☐ | | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | | |
| All samples received within holding time? | Yes ☑ | No ☐ | | |
| Reported field parameters measured: | Field ☐ | Lab ☐ | NA ☑ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | | |

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

| | | | |
|---|---|---|---|
| Water – at least one vial per sample has zero headspace? | Yes ☑ | No ☐ | No VOA vials ☐ |
| Water - TOX containers have zero headspace? | Yes ☐ | No ☐ | No TOX containers ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | NA ☐ |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes ☐ | No ☐ | NA ☑ |

**Any No responses must be detailed below or on the COC.**

TB-02 was received but not listed on the chain of custody. MAK 12/18/15

Trip Blank collection dates and times will be reported as the received date and time (end of trip).

# CHAIN OF CUSTODY

pg. 1 of 2 Work order # 1512142

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

Samples on: ☑ ICE ☐ BLUE ICE ☐ NO ICE 5.22 °C
Preserved in: ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
Lab Notes
Headspace 12/18/15

Client Comments:
Meet MRBCA DTLs

**Courier**

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1512142-001 | EB-1 | 12/18/15 8:05am | 2 | | | | | | | 2 | | X | | | | | | | | X |
| -002 | TB-1 | 8:00am | | | | | | | | 2 | | X | | | | | | | | X |
| -003 | SCI-10A (0-3) | 8:45am | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| -004 | SCI-10B (12-16) | 8:45am | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| -005 | SCI-11A ~~(16-20)~~ (0-3) | 10:15am ~~9:30am~~ | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| -006 | SCI-11B (16-20) | 10:15am ~~9:30am~~ | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| -007 | SCI-12A ~~(12-16)~~ (0-3) | ~~9:30~~ 10:15am | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| -008 | SCI-12B (12-16) | 9:30am ~~10:15am~~ | 2 | | | | | | | 3 | | | X | | | | X | X | X | X |
| -009 | SCI-13A (0-3) | 11:25am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| -010 | SCI-13B (16-20) | 11:25am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 12/18/2015 4:18 pm | [illegible] | 12/18/15 4:18 |
| [illegible] | 12/18/15 5:18 pm | Marvin L. Darling II | 12/18/15 17:18 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

# CHAIN OF CUSTODY

pg. 2 of 2 Work order # 1512421

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**
* Not on COC.

**Client Comments:**
Meet MRBCA DTLs

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1512421-011 | SCI-13D (16-20) | 12/18/15 11:25am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 012 | SCI-14A (0-3) | 12:00pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 013 | SCI-14B (16-20) | 12:00pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 014 | SCI-15A (0-3) | 2:00pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 015 | SCI-15B (12-16) | 2:00pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 016 | SCI-16A (0-3) | 1:15pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 017 | SCI-16B (16-20) | 1:15pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 018 | SCI-17A (0-3) | 3:00pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 019 | SCI-17B (16-20) | 3:00pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 020 | TB-02 | | | | | | | | | | | | | | | | | | | |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 12/18/2015 4:18pm | [illegible] | 12/18/15 4:18 |
| [illegible] | 12/18/15 5:18 | Marvin L. Darling II | 12/18/15 17:18 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

December 28, 2015

Ben Butterfield
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301
TEL: (618) 206-3028
FAX: (636) 949-8269

**RE:** NGA 2015-0461.21 **WorkOrder:** 15121500

Dear Ben Butterfield:

TEKLAB, INC received 24 samples on 12/21/2015 4:35:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
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# Report Contents

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

**This reporting package includes the following:**


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# Definitions

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

| Abbr | Definition |
|---|---|
| CCV | Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration. |
| DF | Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors. |
| DNI | Did not ignite |
| DUP | Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. |
| ICV | Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated. |
| IDPH | IL Dept. of Public Health |
| LCS | Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request). |
| LCSD | Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MBLK | Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses. |
| MDL | Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. |
| MS | Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MSD | Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request). |
| MW | Molecular weight |
| ND | Not Detected at the Reporting Limit |
| NELAP | NELAP Accredited |
| PQL | Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request). |
| RL | The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL. |
| RPD | Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request). |
| SPK | The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. |
| Surr | Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. |
| TIC | Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET" |
| TNTC | Too numerous to count ( > 200 CFU ) |

## Qualifiers

| | | | |
|---|---|---|---|
| # - | Unknown hydrocarbon | B - | Analyte detected in associated Method Blank |
| E - | Value above quantitation range | H - | Holding times exceeded |
| I - | Associated internal standard was outside method criteria | J - | Analyte detected below quantitation limits |
| M - | Manual Integration used to determine area response | ND - | Not Detected at the Reporting Limit |
| R - | RPD outside accepted recovery limits | S - | Spike Recovery outside recovery limits |
| T - | TIC(Tentatively identified compound) | X - | Value exceeds Maximum Contaminant Level |

# Case Narrative

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

**Cooler Receipt Temp:** 15.42 °C

## Locations and Accreditations

| | Collinsville | Springfield | Kansas City | Collinsville Air |
|---|---|---|---|---|
| Address | 5445 Horseshoe Lake Road | 3920 Pintail Dr | 8421 Nieman Road | 5445 Horseshoe Lake Road |
| | Collinsville, IL 62234-7425 | Springfield, IL 62711-9415 | Lenexa, KS 66214 | Collinsville, IL 62234-7425 |
| Phone | (618) 344-1004 | (217) 698-1004 | (913) 541-1998 | (618) 344-1004 |
| Fax | (618) 344-1005 | (217) 698-1005 | (913) 541-1998 | (618) 344-1005 |
| Email | jhriley@teklabinc.com | KKlostermann@teklabinc.com | dthompson@teklabinc.com | EHurley@teklabinc.com |

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|---|---|---|---|---|---|
| Illinois | IEPA | 100226 | NELAP | 1/31/2017 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 1/31/2016 | Collinsville |
| Louisiana | LDEQ | 166493 | NELAP | 6/30/2016 | Collinsville |
| Louisiana | LDEQ | 166578 | NELAP | 6/30/2016 | Collinsville |
| Texas | TCEQ | T104704515-12-1 | NELAP | 7/31/2016 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2016 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2017 | Collinsville |
| Kentucky | KDEP | 98006 | | 12/31/2015 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2016 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2017 | Collinsville |
| Oklahoma | ODEQ | 9978 | | 8/31/2016 | Collinsville |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-001
**Client Sample ID:** EB-2
**Matrix:** AQUEOUS
**Collection Date:** 12/21/2015 14:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-001
**Client Sample ID:** EB-2
**Matrix:** AQUEOUS
**Collection Date:** 12/21/2015 14:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Naphthalene | NELAP | 3.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-001
**Client Sample ID:** EB-2
**Matrix:** AQUEOUS
**Collection Date:** 12/21/2015 14:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/28/2015 12:58 | 115260 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 13:56 | 115254 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **105.2** | %REC | 1 | 12/28/2015 13:56 | 115254 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **97.9** | %REC | 1 | 12/28/2015 13:56 | 115254 |
| Surr: Toluene-d8 | | 84.3-114 | | **100.5** | %REC | 1 | 12/28/2015 13:56 | 115254 |

*Allowable Marginal Exceedance of Allyl chloride in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*
*Allowable Marginal Exceedance of Iodomethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-002
**Client Sample ID:** TB-2
**Matrix:** TRIP BLANK
**Collection Date:** 12/21/2015 16:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-002 **Client Sample ID:** TB-2

**Matrix:** TRIP BLANK **Collection Date:** 12/21/2015 16:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Naphthalene | NELAP | 3.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-002
**Client Sample ID:** TB-2
**Matrix:** TRIP BLANK
**Collection Date:** 12/21/2015 16:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/28/2015 13:25 | 115260 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:23 | 115254 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **103.2** | %REC | 1 | 12/28/2015 14:23 | 115254 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **99.0** | %REC | 1 | 12/28/2015 14:23 | 115254 |
| Surr: Toluene-d8 | | 84.3-114 | | **100.1** | %REC | 1 | 12/28/2015 14:23 | 115254 |

*Allowable Marginal Exceedance of Iodomethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*
*Allowable Marginal Exceedance of Allyl chloride in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-003
**Client Sample ID:** TB-3
**Matrix:** TRIP BLANK
**Collection Date:** 12/21/2015 16:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,1-Dichloro-2-propanone | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2,3-Trichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2-Dichloroethene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,3-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,3-Dichloropropene, Total | | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,4-Dichloro-2-butene, Total | | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 1-Chlorobutane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 2,2-Dichloropropane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 2-Butanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 2-Chloroethyl vinyl ether | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 2-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 2-Hexanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 2-Nitropropane | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 4-Chlorotoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| 4-Methyl-2-pentanone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Acetone | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Acetonitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Acrolein | NELAP | 100 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Acrylonitrile | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Allyl chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Benzene | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Bromobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Bromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Bromodichloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Bromoform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Bromomethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Carbon disulfide | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-003
**Client Sample ID:** TB-3
**Matrix:** TRIP BLANK
**Collection Date:** 12/21/2015 16:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Carbon tetrachloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Chlorobenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Chloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Chloroform | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Chloromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Chloroprene | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| cis-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| cis-1,4-Dichloro-2-butene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Cyclohexanone | | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Dibromochloromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Dibromomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Dichlorodifluoromethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Diisopropyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Ethyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Ethyl ether | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Ethyl methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Ethylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Ethyl-tert-butyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Hexachlorobutadiene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Hexachloroethane | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Iodomethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Isopropylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| m,p-Xylenes | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Methacrylonitrile | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Methylacrylate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Naphthalene | NELAP | 3.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| n-Butyl acetate | | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| n-Heptane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| n-Hexane | | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Nitrobenzene | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Pentachloroethane | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Propionitrile | NELAP | 50.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Styrene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| tert-Amyl methyl ether | | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| tert-Butyl alcohol | NELAP | 25.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Tetrahydrofuran | NELAP | 20.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-003
**Client Sample ID:** TB-3
**Matrix:** TRIP BLANK
**Collection Date:** 12/21/2015 16:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Toluene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| TPH - GRO (C6 - C10) | | 500 | | **ND** | µg/L | 1 | 12/28/2015 13:51 | 115260 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| trans-1,3-Dichloropropene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Vinyl acetate | NELAP | 10.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/L | 1 | 12/28/2015 14:50 | 115254 |
| Surr: 1,2-Dichloroethane-d4 | | 74.7-129 | | **102.5** | %REC | 1 | 12/28/2015 14:50 | 115254 |
| Surr: 4-Bromofluorobenzene | | 86-119 | | **97.6** | %REC | 1 | 12/28/2015 14:50 | 115254 |
| Surr: Toluene-d8 | | 84.3-114 | | **99.2** | %REC | 1 | 12/28/2015 14:50 | 115254 |

*Allowable Marginal Exceedance of Iodomethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*
*Allowable Marginal Exceedance of Allyl chloride in the LCSD verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-004 **Client Sample ID:** SCI-20A (0-3)

**Matrix:** SOLID **Collection Date:** 12/21/2015 9:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **15.1** | % | 1 | 12/23/2015 20:13 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **12.5** | mg/Kg-dry | 1 | 12/24/2015 1:55 | 115163 |
| Barium | NELAP | 0.24 | | **173** | mg/Kg-dry | 1 | 12/24/2015 1:55 | 115163 |
| Cadmium | NELAP | 0.19 | | **1.68** | mg/Kg-dry | 1 | 12/24/2015 1:55 | 115163 |
| Chromium | NELAP | 0.47 | | **24.5** | mg/Kg-dry | 1 | 12/24/2015 1:55 | 115163 |
| Lead | NELAP | 1.42 | | **390** | mg/Kg-dry | 1 | 12/24/2015 1:55 | 115163 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/24/2015 1:55 | 115163 |
| Silver | NELAP | 0.47 | J | **0.38** | mg/Kg-dry | 1 | 12/24/2015 1:55 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.213** | mg/Kg-dry | 1 | 12/23/2015 12:19 | 115165 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.199 | | **0.523** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Anthracene | NELAP | 0.199 | | **0.919** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Benzo(a)anthracene | NELAP | 0.199 | | **2.51** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Benzo(a)pyrene | NELAP | 0.199 | | **2.21** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.199 | | **2.96** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.199 | | **0.941** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Chrysene | NELAP | 0.199 | | **2.33** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.199 | | **0.252** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Fluoranthene | NELAP | 0.199 | | **5.28** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Fluorene | NELAP | 0.199 | | **0.326** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Pyrene | NELAP | 0.199 | | **4.72** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| TPH-DRO (C10 - C21) | | 70.3 | J | **43** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| TPH-ORO (C21 - C35) | | 70.3 | | **70.6** | mg/Kg-dry | 5 | 12/24/2015 1:08 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **74.5** | %REC | 5 | 12/24/2015 1:08 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **73.9** | %REC | 5 | 12/24/2015 1:08 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **93.2** | %REC | 5 | 12/24/2015 1:08 | 115140 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,1-Dichloro-2-propanone | | 42.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,1-Dichloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,1-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,1-Dichloropropene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,2,3-Trimethylbenzene | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,2-Dibromoethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-004
**Client Sample ID:** SCI-20A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 9:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,3-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 1-Chlorobutane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 2,2-Dichloropropane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 2-Butanone | NELAP | 42.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 2-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 2-Hexanone | NELAP | 42.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 2-Nitropropane | NELAP | 42.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 4-Chlorotoluene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 42.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Acetone | NELAP | 42.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Acetonitrile | NELAP | 84.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Acrolein | NELAP | 84.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Acrylonitrile | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Allyl chloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Bromobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Bromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Bromodichloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Bromoform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Bromomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Carbon disulfide | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Carbon tetrachloride | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Chlorobenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Chloroethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Chloroform | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Chloromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 3.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Cyclohexanone | | 84.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Dibromochloromethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Dibromomethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Dichlorodifluoromethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Diisopropyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Ethyl ether | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Ethyl methacrylate | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Ethylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Ethyl-tert-butyl ether | | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Hexachlorobutadiene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Hexachloroethane | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Iodomethane | NELAP | 8.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Isopropylbenzene | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| m,p-Xylenes | NELAP | 4.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-004 **Client Sample ID:** SCI-20A (0-3)

**Matrix:** SOLID **Collection Date:** 12/21/2015 9:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 42.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Methyl Methacrylate | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Methyl tert-butyl ether | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Methylacrylate | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Methylene chloride | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Naphthalene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| n-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| n-Heptane | | 16.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| n-Hexane | | 16.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Nitrobenzene | NELAP | 84.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| n-Propylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| o-Xylene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Pentachloroethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| p-Isopropyltoluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Propionitrile | NELAP | 42.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| sec-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Styrene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| tert-Amyl methyl ether | | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| tert-Butyl alcohol | NELAP | 42.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| tert-Butylbenzene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Tetrachloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Tetrahydrofuran | NELAP | 42.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Toluene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| TPH - GRO (C6 - C10) | | 423 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 3.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Trichloroethene | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Trichlorofluoromethane | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Vinyl acetate | NELAP | 42.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Vinyl chloride | NELAP | 1.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Xylenes, Total | NELAP | 4.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:37 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **102.5** | %REC | 1 | 12/22/2015 14:37 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **105.8** | %REC | 1 | 12/22/2015 14:37 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **98.9** | %REC | 1 | 12/22/2015 14:37 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-005
**Client Sample ID:** SCI-20B (12-16)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 9:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.5** | % | 1 | 12/23/2015 20:13 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **7.71** | mg/Kg-dry | 1 | 12/24/2015 2:02 | 115163 |
| Barium | NELAP | 0.24 | | **142** | mg/Kg-dry | 1 | 12/24/2015 2:02 | 115163 |
| Cadmium | NELAP | 0.19 | | **0.28** | mg/Kg-dry | 1 | 12/24/2015 2:02 | 115163 |
| Chromium | NELAP | 0.48 | | **19.7** | mg/Kg-dry | 1 | 12/24/2015 2:02 | 115163 |
| Lead | NELAP | 1.44 | | **11.6** | mg/Kg-dry | 1 | 12/24/2015 2:02 | 115163 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/24/2015 2:02 | 115163 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/24/2015 2:02 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.032** | mg/Kg-dry | 1 | 12/23/2015 12:37 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Chrysene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Fluorene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Pyrene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| TPH-DRO (C10 - C21) | | 15.1 | J | **7.6** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| TPH-ORO (C21 - C35) | | 15.1 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:22 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **75.4** | %REC | 1 | 12/22/2015 14:22 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **68.0** | %REC | 1 | 12/22/2015 14:22 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.8** | %REC | 1 | 12/22/2015 14:22 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,1-Dichloro-2-propanone | | 43.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-005 **Client Sample ID:** SCI-20B (12-16)

**Matrix:** SOLID **Collection Date:** 12/21/2015 9:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 2-Butanone | NELAP | 43.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 2-Hexanone | NELAP | 43.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 2-Nitropropane | NELAP | 43.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 43.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Acetone | NELAP | 43.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Acetonitrile | NELAP | 87.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Acrolein | NELAP | 87.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Acrylonitrile | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Bromomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Chloroethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Chloromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Cyclohexanone | | 87.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Dichlorodifluoromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Iodomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Methacrylonitrile | NELAP | 43.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121500-005
**Matrix:** SOLID

**Work Order:** 15121500
**Report Date:** 28-Dec-15
**Client Sample ID:** SCI-20B (12-16)
**Collection Date:** 12/21/2015 9:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Methylacrylate | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Naphthalene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| n-Heptane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| n-Hexane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Nitrobenzene | NELAP | 87.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Propionitrile | NELAP | 43.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| tert-Butyl alcohol | NELAP | 43.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Tetrahydrofuran | NELAP | 43.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| TPH - GRO (C6 - C10) | | 439 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Vinyl acetate | NELAP | 43.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:02 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.5** | %REC | 1 | 12/22/2015 15:02 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.1** | %REC | 1 | 12/22/2015 15:02 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **96.2** | %REC | 1 | 12/22/2015 15:02 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-006
**Client Sample ID:** SCI-21A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 8:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **18.8** | % | 1 | 12/23/2015 20:14 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **9.57** | mg/Kg-dry | 1 | 12/24/2015 2:08 | 115163 |
| Barium | NELAP | 0.25 | | **177** | mg/Kg-dry | 1 | 12/24/2015 2:08 | 115163 |
| Cadmium | NELAP | 0.20 | | **0.85** | mg/Kg-dry | 1 | 12/24/2015 2:08 | 115163 |
| Chromium | NELAP | 0.50 | | **19.8** | mg/Kg-dry | 1 | 12/24/2015 2:08 | 115163 |
| Lead | NELAP | 1.50 | | **227** | mg/Kg-dry | 1 | 12/28/2015 11:38 | 115232 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 2:08 | 115163 |
| Silver | NELAP | 0.50 | J | **0.27** | mg/Kg-dry | 1 | 12/24/2015 2:08 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.279** | mg/Kg-dry | 1 | 12/23/2015 12:40 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.207 | | **0.313** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Anthracene | NELAP | 0.207 | | **0.681** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Benzo(a)anthracene | NELAP | 0.207 | | **1.70** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Benzo(a)pyrene | NELAP | 0.207 | | **1.40** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.207 | | **1.77** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.207 | | **0.732** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Chrysene | NELAP | 0.207 | | **1.48** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.207 | J | **0.16** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Fluoranthene | NELAP | 0.207 | | **3.84** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Fluorene | NELAP | 0.207 | | **0.252** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Pyrene | NELAP | 0.207 | | **3.27** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| TPH-DRO (C10 - C21) | | 73.2 | J | **38** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| TPH-ORO (C21 - C35) | | 73.2 | J | **54** | mg/Kg-dry | 5 | 12/24/2015 0:38 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **63.3** | %REC | 5 | 12/24/2015 0:38 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **65.3** | %REC | 5 | 12/24/2015 0:38 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **79.8** | %REC | 5 | 12/24/2015 0:38 | 115140 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,1-Dichloro-2-propanone | | 39.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,1-Dichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,1-Dichloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,1-Dichloropropene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,2,3-Trimethylbenzene | | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,2-Dibromoethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-006
**Client Sample ID:** SCI-21A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 8:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,2-Dichloropropane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,3-Dichloropropane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 1-Chlorobutane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 2,2-Dichloropropane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 2-Butanone | NELAP | 39.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 2-Chlorotoluene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 2-Hexanone | NELAP | 39.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 2-Nitropropane | NELAP | 39.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 4-Chlorotoluene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 39.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Acetone | NELAP | 39.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Acetonitrile | NELAP | 79.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Acrolein | NELAP | 79.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Acrylonitrile | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Allyl chloride | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Bromobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Bromochloromethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Bromodichloromethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Bromoform | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Bromomethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Carbon disulfide | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Carbon tetrachloride | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Chlorobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Chloroethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Chloroform | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Chloromethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 3.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Cyclohexanone | | 79.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Dibromochloromethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Dibromomethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Dichlorodifluoromethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Diisopropyl ether | | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Ethyl ether | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Ethyl methacrylate | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Ethylbenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Ethyl-tert-butyl ether | | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Hexachlorobutadiene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Hexachloroethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Iodomethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Isopropylbenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| m,p-Xylenes | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-006
**Client Sample ID:** SCI-21A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 8:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 39.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Methyl Methacrylate | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Methyl tert-butyl ether | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Methylacrylate | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Methylene chloride | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Naphthalene | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| n-Butylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| n-Heptane | | 15.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| n-Hexane | | 15.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Nitrobenzene | NELAP | 79.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| n-Propylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| o-Xylene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Pentachloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| p-Isopropyltoluene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Propionitrile | NELAP | 39.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| sec-Butylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Styrene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| tert-Amyl methyl ether | | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| tert-Butyl alcohol | NELAP | 39.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| tert-Butylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Tetrachloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Tetrahydrofuran | NELAP | 39.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Toluene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| TPH - GRO (C6 - C10) | | 398 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 3.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Trichloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Trichlorofluoromethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Vinyl acetate | NELAP | 39.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Vinyl chloride | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Xylenes, Total | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:28 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.1** | %REC | 1 | 12/22/2015 15:28 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.2** | %REC | 1 | 12/22/2015 15:28 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **98.7** | %REC | 1 | 12/22/2015 15:28 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-007
**Client Sample ID:** SCI-21B (4-8)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 8:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.6** | % | 1 | 12/23/2015 20:14 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **6.10** | mg/Kg-dry | 1 | 12/24/2015 2:26 | 115163 |
| Barium | NELAP | 0.23 | | **127** | mg/Kg-dry | 1 | 12/24/2015 2:26 | 115163 |
| Cadmium | NELAP | 0.19 | | **0.24** | mg/Kg-dry | 1 | 12/24/2015 2:26 | 115163 |
| Chromium | NELAP | 0.46 | | **21.1** | mg/Kg-dry | 1 | 12/24/2015 2:26 | 115163 |
| Lead | NELAP | 1.39 | | **9.98** | mg/Kg-dry | 1 | 12/24/2015 2:26 | 115163 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 12/24/2015 2:26 | 115163 |
| Silver | NELAP | 0.46 | J | **0.14** | mg/Kg-dry | 1 | 12/24/2015 2:26 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.032** | mg/Kg-dry | 1 | 12/23/2015 12:42 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Anthracene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Chrysene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Fluoranthene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Fluorene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Pyrene | NELAP | 0.0404 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| TPH-DRO (C10 - C21) | | 14.3 | J | **7.3** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| TPH-ORO (C21 - C35) | | 14.3 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 14:52 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **73.7** | %REC | 1 | 12/22/2015 14:52 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **72.4** | %REC | 1 | 12/22/2015 14:52 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **87.9** | %REC | 1 | 12/22/2015 14:52 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,1-Dichloro-2-propanone | | 39.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,1-Dichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,1-Dichloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,1-Dichloropropene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,2,3-Trimethylbenzene | | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,2-Dibromoethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,2-Dichloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-007
**Client Sample ID:** SCI-21B (4-8)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 8:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,3-Dichloropropane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 1-Chlorobutane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 2,2-Dichloropropane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 2-Butanone | NELAP | 39.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 2-Chlorotoluene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 2-Hexanone | NELAP | 39.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 2-Nitropropane | NELAP | 39.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 4-Chlorotoluene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 39.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Acetone | NELAP | 39.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Acetonitrile | NELAP | 79.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Acrolein | NELAP | 79.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Acrylonitrile | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Allyl chloride | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Bromobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Bromochloromethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Bromodichloromethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Bromoform | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Bromomethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Carbon disulfide | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Carbon tetrachloride | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Chlorobenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Chloroethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Chloroform | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Chloromethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 3.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Cyclohexanone | | 79.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Dibromochloromethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Dibromomethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Dichlorodifluoromethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Diisopropyl ether | | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Ethyl ether | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Ethyl methacrylate | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Ethylbenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Ethyl-tert-butyl ether | | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Hexachlorobutadiene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Hexachloroethane | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Iodomethane | NELAP | 8.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Isopropylbenzene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| m,p-Xylenes | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Methacrylonitrile | NELAP | 39.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-007
**Client Sample ID:** SCI-21B (4-8)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 8:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Methyl tert-butyl ether | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Methylacrylate | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Methylene chloride | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Naphthalene | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| n-Butylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| n-Heptane | | 16.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| n-Hexane | | 16.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Nitrobenzene | NELAP | 79.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| n-Propylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| o-Xylene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Pentachloroethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| p-Isopropyltoluene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Propionitrile | NELAP | 39.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| sec-Butylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Styrene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| tert-Amyl methyl ether | | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| tert-Butyl alcohol | NELAP | 39.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| tert-Butylbenzene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Tetrachloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Tetrahydrofuran | NELAP | 39.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Toluene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| TPH - GRO (C6 - C10) | | 399 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 3.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Trichloroethene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Trichlorofluoromethane | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Vinyl acetate | NELAP | 39.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Vinyl chloride | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Xylenes, Total | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:55 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **102.0** | %REC | 1 | 12/22/2015 15:55 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.6** | %REC | 1 | 12/22/2015 15:55 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **99.3** | %REC | 1 | 12/22/2015 15:55 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-008
**Client Sample ID:** SCI-22A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 9:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **16.0** | % | 1 | 12/23/2015 20:14 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **10.4** | mg/Kg-dry | 1 | 12/24/2015 2:32 | 115163 |
| Barium | NELAP | 0.25 | | **253** | mg/Kg-dry | 1 | 12/24/2015 2:32 | 115163 |
| Cadmium | NELAP | 0.20 | | **0.73** | mg/Kg-dry | 1 | 12/24/2015 2:32 | 115163 |
| Chromium | NELAP | 0.50 | | **21.2** | mg/Kg-dry | 1 | 12/24/2015 2:32 | 115163 |
| Lead | NELAP | 1.50 | | **267** | mg/Kg-dry | 1 | 12/24/2015 2:32 | 115163 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 2:32 | 115163 |
| Silver | NELAP | 0.50 | J | **0.23** | mg/Kg-dry | 1 | 12/24/2015 2:32 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.560** | mg/Kg-dry | 1 | 12/23/2015 12:44 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.401 | | **1.21** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Anthracene | NELAP | 0.401 | | **2.97** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Benzo(a)anthracene | NELAP | 0.401 | | **6.38** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Benzo(a)pyrene | NELAP | 0.401 | | **5.15** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.401 | | **6.81** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.401 | | **2.27** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Chrysene | NELAP | 0.401 | | **5.86** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.401 | | **0.559** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Fluoranthene | NELAP | 0.401 | | **14.9** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Fluorene | NELAP | 0.401 | | **0.944** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Pyrene | NELAP | 0.401 | | **12.1** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| TPH-DRO (C10 - C21) | | 142 | J | **95** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| TPH-ORO (C21 - C35) | | 142 | | **155** | mg/Kg-dry | 10 | 12/24/2015 0:08 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **68.7** | %REC | 10 | 12/24/2015 0:08 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **61.9** | %REC | 10 | 12/24/2015 0:08 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **83.4** | %REC | 10 | 12/24/2015 0:08 | 115140 |
| *Elevated reporting limit due to sample extract composition.* | | | | | | | | |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,1-Dichloro-2-propanone | | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-008 **Client Sample ID:** SCI-22A (0-3)

**Matrix:** SOLID **Collection Date:** 12/21/2015 9:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 2-Butanone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 2-Hexanone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 2-Nitropropane | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Acetone | NELAP | 45.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Acetonitrile | NELAP | 90.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Acrolein | NELAP | 90.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Acrylonitrile | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Bromomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Chloroethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Chloromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Cyclohexanone | | 90.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Dichlorodifluoromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Iodomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-008
**Client Sample ID:** SCI-22A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 9:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Methylacrylate | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Naphthalene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| n-Heptane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| n-Hexane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Nitrobenzene | NELAP | 90.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Propionitrile | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| tert-Butyl alcohol | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Tetrahydrofuran | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| TPH - GRO (C6 - C10) | | 453 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Vinyl acetate | NELAP | 45.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:21 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **102.8** | %REC | 1 | 12/22/2015 16:21 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.8** | %REC | 1 | 12/22/2015 16:21 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **99.0** | %REC | 1 | 12/22/2015 16:21 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-009 **Client Sample ID:** SCI-22B (8-12)

**Matrix:** SOLID **Collection Date:** 12/21/2015 9:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.8** | % | 1 | 12/23/2015 20:15 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **8.00** | mg/Kg-dry | 1 | 12/24/2015 2:50 | 115163 |
| Barium | NELAP | 0.25 | | **129** | mg/Kg-dry | 1 | 12/24/2015 2:50 | 115163 |
| Cadmium | NELAP | 0.20 | | **0.66** | mg/Kg-dry | 1 | 12/24/2015 2:50 | 115163 |
| Chromium | NELAP | 0.50 | | **16.8** | mg/Kg-dry | 1 | 12/24/2015 2:50 | 115163 |
| Lead | NELAP | 1.50 | | **81.1** | mg/Kg-dry | 1 | 12/24/2015 2:50 | 115163 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 2:50 | 115163 |
| Silver | NELAP | 0.50 | J | **0.43** | mg/Kg-dry | 1 | 12/24/2015 2:50 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.253 | | **1.17** | mg/Kg-dry | 20 | 12/23/2015 13:57 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.214 | J | **0.18** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Anthracene | NELAP | 0.214 | | **0.382** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Benzo(a)anthracene | NELAP | 0.214 | | **1.17** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Benzo(a)pyrene | NELAP | 0.214 | | **1.04** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.214 | | **1.42** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.214 | | **0.457** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Chrysene | NELAP | 0.214 | | **1.13** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.214 | J | **0.13** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Fluoranthene | NELAP | 0.214 | | **2.71** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Fluorene | NELAP | 0.214 | J | **0.13** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Pyrene | NELAP | 0.214 | | **2.39** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| TPH-DRO (C10 - C21) | | 75.5 | J | **38** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| TPH-ORO (C21 - C35) | | 75.5 | J | **45** | mg/Kg-dry | 5 | 12/23/2015 23:38 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.3** | %REC | 5 | 12/23/2015 23:38 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **67.7** | %REC | 5 | 12/23/2015 23:38 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **84.4** | %REC | 5 | 12/23/2015 23:38 | 115140 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,1-Dichloro-2-propanone | | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-009
**Client Sample ID:** SCI-22B (8-12)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 9:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,2-Dichloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,3-Dichloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 1-Chlorobutane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 2,2-Dichloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 2-Butanone | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 2-Chlorotoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 2-Hexanone | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 2-Nitropropane | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 4-Chlorotoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Acetone | NELAP | 44.4 | J | **18** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Acetonitrile | NELAP | 88.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Acrolein | NELAP | 88.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Acrylonitrile | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Allyl chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Benzene | NELAP | 0.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Bromobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Bromochloromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Bromodichloromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Bromoform | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Bromomethane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Carbon disulfide | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Carbon tetrachloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Chlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Chloroethane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Chloroform | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Chloromethane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Cyclohexanone | | 88.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Dibromochloromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Dibromomethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Dichlorodifluoromethane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Diisopropyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Ethyl ether | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Ethyl methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Ethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Ethyl-tert-butyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Hexachlorobutadiene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Hexachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Iodomethane | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Isopropylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| m,p-Xylenes | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-009
**Client Sample ID:** SCI-22B (8-12)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 9:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Methylacrylate | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Naphthalene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| n-Heptane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| n-Hexane | | 17.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Nitrobenzene | NELAP | 88.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Propionitrile | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| tert-Butyl alcohol | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Tetrahydrofuran | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| TPH - GRO (C6 - C10) | | 444 | J | **260** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Vinyl acetate | NELAP | 44.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:47 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **98.2** | %REC | 1 | 12/22/2015 16:47 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **111.4** | %REC | 1 | 12/22/2015 16:47 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **104.6** | %REC | 1 | 12/22/2015 16:47 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-010 **Client Sample ID:** SCI-23A (0-3)

**Matrix:** SOLID **Collection Date:** 12/21/2015 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **24.8** | % | 1 | 12/23/2015 20:15 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **12.9** | mg/Kg-dry | 1 | 12/24/2015 2:56 | 115163 |
| Barium | NELAP | 0.25 | | **290** | mg/Kg-dry | 1 | 12/24/2015 2:56 | 115163 |
| Cadmium | NELAP | 0.20 | | **1.35** | mg/Kg-dry | 1 | 12/24/2015 2:56 | 115163 |
| Chromium | NELAP | 0.50 | | **23.3** | mg/Kg-dry | 1 | 12/24/2015 2:56 | 115163 |
| Lead | NELAP | 1.50 | | **341** | mg/Kg-dry | 1 | 12/24/2015 2:56 | 115163 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 2:56 | 115163 |
| Silver | NELAP | 0.50 | J | **0.39** | mg/Kg-dry | 1 | 12/24/2015 2:56 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.405** | mg/Kg-dry | 1 | 12/23/2015 12:49 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 1.11 | | **2.90** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Anthracene | NELAP | 1.11 | | **7.30** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Benzo(a)anthracene | NELAP | 1.11 | | **19.0** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Benzo(a)pyrene | NELAP | 1.11 | | **16.2** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Benzo(b)fluoranthene | NELAP | 1.11 | | **22.1** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Benzo(k)fluoranthene | NELAP | 1.11 | | **7.56** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Chrysene | NELAP | 1.11 | | **17.1** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 1.11 | | **1.59** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Fluoranthene | NELAP | 1.11 | | **42.5** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Fluorene | NELAP | 1.11 | | **2.46** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Pyrene | NELAP | 1.11 | | **36.7** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| TPH-DRO (C10 - C21) | | 392 | J | **270** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| TPH-ORO (C21 - C35) | | 392 | | **452** | mg/Kg-dry | 25 | 12/22/2015 21:21 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **72.9** | %REC | 25 | 12/22/2015 21:21 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **73.9** | %REC | 25 | 12/22/2015 21:21 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **94.8** | %REC | 25 | 12/22/2015 21:21 | 115140 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,1,1-Trichloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,1,2-Trichloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,1-Dichloro-2-propanone | | 58.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,1-Dichloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,1-Dichloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,1-Dichloropropene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,2,3-Trichlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,2,3-Trichloropropane | NELAP | 11.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,2,3-Trimethylbenzene | | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,2,4-Trichlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,2,4-Trimethylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,2-Dibromoethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,2-Dichlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-010 **Client Sample ID:** SCI-23A (0-3)

**Matrix:** SOLID **Collection Date:** 12/21/2015 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,2-Dichloropropane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,3,5-Trimethylbenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,3-Dichlorobenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,3-Dichloropropane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1,4-Dichlorobenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 1-Chlorobutane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 2,2-Dichloropropane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 2-Butanone | NELAP | 58.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 2-Chlorotoluene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 2-Hexanone | NELAP | 58.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 2-Nitropropane | NELAP | 58.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 4-Chlorotoluene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| 4-Methyl-2-pentanone | NELAP | 58.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Acetone | NELAP | 58.0 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Acetonitrile | NELAP | 116 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Acrolein | NELAP | 116 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Acrylonitrile | NELAP | 11.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Allyl chloride | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Benzene | NELAP | 1.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Bromobenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Bromochloromethane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Bromodichloromethane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Bromoform | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Bromomethane | NELAP | 11.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Carbon disulfide | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Carbon tetrachloride | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Chlorobenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Chloroethane | NELAP | 11.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Chloroform | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Chloromethane | NELAP | 11.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| cis-1,2-Dichloroethene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| cis-1,3-Dichloropropene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Cyclohexanone | | 116 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Dibromochloromethane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Dibromomethane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Dichlorodifluoromethane | NELAP | 11.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Diisopropyl ether | | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Ethyl ether | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Ethyl methacrylate | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Ethylbenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Ethyl-tert-butyl ether | | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Hexachlorobutadiene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Hexachloroethane | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Iodomethane | NELAP | 11.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Isopropylbenzene | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| m,p-Xylenes | NELAP | 5.8 | | ND | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-010
**Client Sample ID:** SCI-23A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 58.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Methyl Methacrylate | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Methyl tert-butyl ether | NELAP | 2.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Methylacrylate | NELAP | 11.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Methylene chloride | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Naphthalene | NELAP | 11.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| n-Butylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| n-Heptane | | 23.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| n-Hexane | | 23.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Nitrobenzene | NELAP | 116 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| n-Propylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| o-Xylene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Pentachloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| p-Isopropyltoluene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Propionitrile | NELAP | 58.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| sec-Butylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Styrene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| tert-Amyl methyl ether | | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| tert-Butyl alcohol | NELAP | 58.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| tert-Butylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Tetrachloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Tetrahydrofuran | NELAP | 58.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Toluene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| TPH - GRO (C6 - C10) | | 580 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| trans-1,2-Dichloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| trans-1,3-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| trans-1,4-Dichloro-2-butene | NELAP | 11.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Trichloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Trichlorofluoromethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Vinyl acetate | NELAP | 58.0 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Vinyl chloride | NELAP | 2.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Xylenes, Total | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 12:50 | 115190 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **105.9** | %REC | 1 | 12/23/2015 12:50 | 115190 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | S | **118.4** | %REC | 1 | 12/23/2015 12:50 | 115190 |
| Surr: Toluene-d8 | | 86-116 | | **102.3** | %REC | 1 | 12/23/2015 12:50 | 115190 |

*Surrogate recovery is outside QC limits due to matrix interference.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-011
**Client Sample ID:** SCI-23B (8-12)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **22.2** | % | 1 | 12/23/2015 20:15 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **5.56** | mg/Kg-dry | 1 | 12/24/2015 3:03 | 115163 |
| Barium | NELAP | 0.25 | | **220** | mg/Kg-dry | 1 | 12/24/2015 3:03 | 115163 |
| Cadmium | NELAP | 0.20 | J | **0.16** | mg/Kg-dry | 1 | 12/24/2015 3:03 | 115163 |
| Chromium | NELAP | 0.49 | | **11.9** | mg/Kg-dry | 1 | 12/24/2015 3:03 | 115163 |
| Lead | NELAP | 1.47 | | **15.4** | mg/Kg-dry | 1 | 12/24/2015 3:03 | 115163 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 12/24/2015 3:03 | 115163 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 12/24/2015 3:03 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.053** | mg/Kg-dry | 1 | 12/23/2015 12:51 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Anthracene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Chrysene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Fluoranthene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Fluorene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Pyrene | NELAP | 0.0428 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| TPH-DRO (C10 - C21) | | 15.1 | J | **14** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| TPH-ORO (C21 - C35) | | 15.1 | J | **9.5** | mg/Kg-dry | 1 | 12/23/2015 22:08 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **74.1** | %REC | 1 | 12/23/2015 22:08 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **69.0** | %REC | 1 | 12/23/2015 22:08 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **86.7** | %REC | 1 | 12/23/2015 22:08 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,1-Dichloro-2-propanone | | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,1-Dichloroethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,1-Dichloroethene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,1-Dichloropropene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,2,3-Trimethylbenzene | | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,2-Dibromoethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,2-Dichloroethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-011 **Client Sample ID:** SCI-23B (8-12)

**Matrix:** SOLID **Collection Date:** 12/21/2015 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,3-Dichloropropane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 1-Chlorobutane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 2,2-Dichloropropane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 2-Butanone | NELAP | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 2-Chlorotoluene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 2-Hexanone | NELAP | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 2-Nitropropane | NELAP | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 4-Chlorotoluene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Acetone | NELAP | 53.5 | J | **28** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Acetonitrile | NELAP | 107 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Acrolein | NELAP | 107 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Acrylonitrile | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Allyl chloride | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Benzene | NELAP | 1.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Bromobenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Bromochloromethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Bromodichloromethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Bromoform | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Bromomethane | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Carbon disulfide | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Carbon tetrachloride | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Chlorobenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Chloroethane | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Chloroform | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Chloromethane | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Cyclohexanone | | 107 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Dibromochloromethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Dibromomethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Dichlorodifluoromethane | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Diisopropyl ether | | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Ethyl ether | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Ethyl methacrylate | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Ethylbenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Ethyl-tert-butyl ether | | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Hexachlorobutadiene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Hexachloroethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Iodomethane | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Isopropylbenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| m,p-Xylenes | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Methacrylonitrile | NELAP | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-011
**Client Sample ID:** SCI-23B (8-12)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 10:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Methyl tert-butyl ether | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Methylacrylate | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Methylene chloride | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Naphthalene | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| n-Butylbenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| n-Heptane | | 21.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| n-Hexane | | 21.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Nitrobenzene | NELAP | 107 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| n-Propylbenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| o-Xylene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Pentachloroethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| p-Isopropyltoluene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Propionitrile | NELAP | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| sec-Butylbenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Styrene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| tert-Amyl methyl ether | | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| tert-Butyl alcohol | NELAP | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| tert-Butylbenzene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Tetrachloroethene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Tetrahydrofuran | NELAP | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Toluene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| TPH - GRO (C6 - C10) | | 535 | J | **250** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 4.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Trichloroethene | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Trichlorofluoromethane | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Vinyl acetate | NELAP | 53.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Vinyl chloride | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Xylenes, Total | NELAP | 5.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 17:39 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **97.7** | %REC | 1 | 12/22/2015 17:39 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **111.3** | %REC | 1 | 12/22/2015 17:39 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **102.7** | %REC | 1 | 12/22/2015 17:39 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-012 **Client Sample ID:** SCI-24A (0-3)

**Matrix:** SOLID **Collection Date:** 12/21/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.2** | % | 1 | 12/23/2015 20:16 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **9.78** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115163 |
| Barium | NELAP | 0.25 | | **260** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115163 |
| Cadmium | NELAP | 0.20 | | **1.04** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115163 |
| Chromium | NELAP | 0.50 | | **20.8** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115163 |
| Lead | NELAP | 1.50 | | **427** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115163 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115163 |
| Silver | NELAP | 0.50 | J | **0.36** | mg/Kg-dry | 1 | 12/24/2015 3:09 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.438** | mg/Kg-dry | 1 | 12/23/2015 12:58 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 1.05 | | **2.35** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Anthracene | NELAP | 1.05 | | **6.26** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Benzo(a)anthracene | NELAP | 1.05 | | **21.9** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Benzo(a)pyrene | NELAP | 1.05 | | **20.5** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Benzo(b)fluoranthene | NELAP | 1.05 | | **28.2** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Benzo(k)fluoranthene | NELAP | 1.05 | | **8.50** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Chrysene | NELAP | 1.05 | | **21.2** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 1.05 | | **1.94** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Fluoranthene | NELAP | 1.05 | | **50.5** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Fluorene | NELAP | 1.05 | | **1.92** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Pyrene | NELAP | 1.05 | | **44.2** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| TPH-DRO (C10 - C21) | | 370 | J | **220** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| TPH-ORO (C21 - C35) | | 370 | | **468** | mg/Kg-dry | 25 | 12/25/2015 4:40 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **69.4** | %REC | 25 | 12/25/2015 4:40 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **62.9** | %REC | 25 | 12/25/2015 4:40 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **85.3** | %REC | 25 | 12/25/2015 4:40 | 115140 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,1,1-Trichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,1,2-Trichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,1-Dichloro-2-propanone | | 51.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,1-Dichloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,1-Dichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,1-Dichloropropene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,2,3-Trichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,2,3-Trichloropropane | NELAP | 10.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,2,3-Trimethylbenzene | | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,2,4-Trichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,2,4-Trimethylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,2-Dibromoethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,2-Dichlorobenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-012
**Client Sample ID:** SCI-24A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,2-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,3,5-Trimethylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,3-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,3-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1,4-Dichlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 1-Chlorobutane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 2,2-Dichloropropane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 2-Butanone | NELAP | 51.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 2-Chlorotoluene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 2-Hexanone | NELAP | 51.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 2-Nitropropane | NELAP | 51.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 4-Chlorotoluene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| 4-Methyl-2-pentanone | NELAP | 51.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Acetone | NELAP | 51.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Acetonitrile | NELAP | 103 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Acrolein | NELAP | 103 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Acrylonitrile | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Allyl chloride | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Bromobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Bromochloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Bromodichloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Bromoform | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Bromomethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Carbon disulfide | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Carbon tetrachloride | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Chlorobenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Chloroethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Chloroform | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Chloromethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| cis-1,2-Dichloroethene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| cis-1,3-Dichloropropene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Cyclohexanone | | 103 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Dibromochloromethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Dibromomethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Dichlorodifluoromethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Diisopropyl ether | | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Ethyl ether | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Ethyl methacrylate | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Ethylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Ethyl-tert-butyl ether | | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Hexachlorobutadiene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Hexachloroethane | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Iodomethane | NELAP | 10.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Isopropylbenzene | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| m,p-Xylenes | NELAP | 5.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-012
**Client Sample ID:** SCI-24A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 51.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Methyl Methacrylate | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Methyl tert-butyl ether | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Methylacrylate | NELAP | 10.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Methylene chloride | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Naphthalene | NELAP | 10.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| n-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| n-Heptane | | 20.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| n-Hexane | | 20.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Nitrobenzene | NELAP | 103 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| n-Propylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| o-Xylene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Pentachloroethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| p-Isopropyltoluene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Propionitrile | NELAP | 51.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| sec-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Styrene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| tert-Amyl methyl ether | | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| tert-Butyl alcohol | NELAP | 51.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| tert-Butylbenzene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Tetrachloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Tetrahydrofuran | NELAP | 51.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Toluene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| TPH - GRO (C6 - C10) | | 515 | J | **270** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| trans-1,2-Dichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| trans-1,3-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| trans-1,4-Dichloro-2-butene | NELAP | 10.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Trichloroethene | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Trichlorofluoromethane | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Vinyl acetate | NELAP | 51.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Vinyl chloride | NELAP | 2.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Xylenes, Total | NELAP | 5.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 18:05 | 115156 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **99.4** | %REC | 1 | 12/22/2015 18:05 | 115156 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **114.0** | %REC | 1 | 12/22/2015 18:05 | 115156 |
| Surr: Toluene-d8 | | 86-116 | | **103.5** | %REC | 1 | 12/22/2015 18:05 | 115156 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-013
**Client Sample ID:** SCI-24B (4-8)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.6** | % | 1 | 12/23/2015 20:17 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **7.32** | mg/Kg-dry | 1 | 12/24/2015 3:15 | 115163 |
| Barium | NELAP | 0.24 | | **159** | mg/Kg-dry | 1 | 12/24/2015 3:15 | 115163 |
| Cadmium | NELAP | 0.19 | | **0.21** | mg/Kg-dry | 1 | 12/24/2015 3:15 | 115163 |
| Chromium | NELAP | 0.48 | | **18.3** | mg/Kg-dry | 1 | 12/24/2015 3:15 | 115163 |
| Lead | NELAP | 1.44 | | **10.4** | mg/Kg-dry | 1 | 12/24/2015 3:15 | 115163 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/24/2015 3:15 | 115163 |
| Silver | NELAP | 0.48 | J | **0.19** | mg/Kg-dry | 1 | 12/24/2015 3:15 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.037** | mg/Kg-dry | 1 | 12/23/2015 13:00 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Anthracene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Chrysene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Fluoranthene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Fluorene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Pyrene | NELAP | 0.0425 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| TPH-DRO (C10 - C21) | | 15.0 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| TPH-ORO (C21 - C35) | | 15.0 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:22 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **76.4** | %REC | 1 | 12/22/2015 15:22 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **70.9** | %REC | 1 | 12/22/2015 15:22 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **90.2** | %REC | 1 | 12/22/2015 15:22 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,1-Dichloro-2-propanone | | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-013 **Client Sample ID:** SCI-24B (4-8)

**Matrix:** SOLID **Collection Date:** 12/21/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 2-Butanone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 2-Hexanone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 2-Nitropropane | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Acetone | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Acetonitrile | NELAP | 93.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Acrolein | NELAP | 93.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Acrylonitrile | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Bromomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Chloroethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Chloromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 3.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Cyclohexanone | | 93.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Dichlorodifluoromethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Iodomethane | NELAP | 9.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Methacrylonitrile | NELAP | 46.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-013
**Client Sample ID:** SCI-24B (4-8)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Methylacrylate | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Methylene chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Naphthalene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| n-Heptane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| n-Hexane | | 18.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Nitrobenzene | NELAP | 93.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Propionitrile | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| tert-Butyl alcohol | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Tetrahydrofuran | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| TPH - GRO (C6 - C10) | | 469 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 3.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Vinyl acetate | NELAP | 46.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 12:34 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.9** | %REC | 1 | 12/22/2015 12:34 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.9** | %REC | 1 | 12/22/2015 12:34 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **104.0** | %REC | 1 | 12/22/2015 12:34 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-014
**Client Sample ID:** SCI-25A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **15.3** | % | 1 | 12/23/2015 20:17 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **6.38** | mg/Kg-dry | 1 | 12/24/2015 3:21 | 115163 |
| Barium | NELAP | 0.24 | | **143** | mg/Kg-dry | 1 | 12/24/2015 3:21 | 115163 |
| Cadmium | NELAP | 0.19 | | **0.73** | mg/Kg-dry | 1 | 12/24/2015 3:21 | 115163 |
| Chromium | NELAP | 0.47 | | **13.1** | mg/Kg-dry | 1 | 12/24/2015 3:21 | 115163 |
| Lead | NELAP | 1.42 | | **404** | mg/Kg-dry | 1 | 12/24/2015 3:21 | 115163 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/24/2015 3:21 | 115163 |
| Silver | NELAP | 0.47 | J | **0.24** | mg/Kg-dry | 1 | 12/24/2015 3:21 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.125** | mg/Kg-dry | 1 | 12/23/2015 13:07 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **0.229** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Anthracene | NELAP | 0.0400 | | **0.580** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **2.05** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **1.81** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **2.70** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **0.779** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Chrysene | NELAP | 0.0400 | | **1.78** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **0.163** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Fluoranthene | NELAP | 0.0400 | | **4.18** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Fluorene | NELAP | 0.0400 | | **0.160** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Pyrene | NELAP | 0.0400 | | **3.86** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| TPH-DRO (C10 - C21) | | 14.1 | | **16.9** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| TPH-ORO (C21 - C35) | | 14.1 | | **46.4** | mg/Kg-dry | 1 | 12/28/2015 11:18 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **68.1** | %REC | 1 | 12/28/2015 11:18 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **64.6** | %REC | 1 | 12/28/2015 11:18 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **83.2** | %REC | 1 | 12/28/2015 11:18 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,1,1-Trichloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,1,2,2-Tetrachloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,1,2-Trichloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,1-Dichloro-2-propanone | | 65.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,1-Dichloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,1-Dichloroethene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,1-Dichloropropene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,2,3-Trichlorobenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,2,3-Trichloropropane | NELAP | 13.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,2,3-Trimethylbenzene | | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,2,4-Trichlorobenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,2,4-Trimethylbenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,2-Dibromo-3-chloropropane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,2-Dibromoethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,2-Dichlorobenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,2-Dichloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-014
**Client Sample ID:** SCI-25A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,3,5-Trimethylbenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,3-Dichlorobenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,3-Dichloropropane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1,4-Dichlorobenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 1-Chlorobutane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 2,2-Dichloropropane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 2-Butanone | NELAP | 65.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 2-Chlorotoluene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 2-Hexanone | NELAP | 65.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 2-Nitropropane | NELAP | 65.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 4-Chlorotoluene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| 4-Methyl-2-pentanone | NELAP | 65.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Acetone | NELAP | 65.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Acetonitrile | NELAP | 131 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Acrolein | NELAP | 131 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Acrylonitrile | NELAP | 13.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Allyl chloride | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Benzene | NELAP | 1.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Bromobenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Bromochloromethane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Bromodichloromethane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Bromoform | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Bromomethane | NELAP | 13.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Carbon disulfide | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Carbon tetrachloride | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Chlorobenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Chloroethane | NELAP | 13.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Chloroform | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Chloromethane | NELAP | 13.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| cis-1,2-Dichloroethene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| cis-1,3-Dichloropropene | NELAP | 5.3 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Cyclohexanone | | 131 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Dibromochloromethane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Dibromomethane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Dichlorodifluoromethane | NELAP | 13.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Diisopropyl ether | | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Ethyl ether | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Ethyl methacrylate | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Ethylbenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Ethyl-tert-butyl ether | | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Hexachlorobutadiene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Hexachloroethane | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Iodomethane | NELAP | 13.1 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Isopropylbenzene | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| m,p-Xylenes | NELAP | 6.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Methacrylonitrile | NELAP | 65.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-014
**Client Sample ID:** SCI-25A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Methyl tert-butyl ether | NELAP | 2.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Methylacrylate | NELAP | 13.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Methylene chloride | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Naphthalene | NELAP | 13.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| n-Butylbenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| n-Heptane | | 26.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| n-Hexane | | 26.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Nitrobenzene | NELAP | 131 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| n-Propylbenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| o-Xylene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Pentachloroethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| p-Isopropyltoluene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Propionitrile | NELAP | 65.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| sec-Butylbenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Styrene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| tert-Amyl methyl ether | | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| tert-Butyl alcohol | NELAP | 65.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| tert-Butylbenzene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Tetrachloroethene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Tetrahydrofuran | NELAP | 65.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Toluene | NELAP | 6.6 | J | **1.5** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| TPH - GRO (C6 - C10) | | 657 | J | **410** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| trans-1,2-Dichloroethene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| trans-1,3-Dichloropropene | NELAP | 5.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| trans-1,4-Dichloro-2-butene | NELAP | 13.1 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Trichloroethene | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Trichlorofluoromethane | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Vinyl acetate | NELAP | 65.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Vinyl chloride | NELAP | 2.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Xylenes, Total | NELAP | 6.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:17 | 115190 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.5** | %REC | 1 | 12/23/2015 13:17 | 115190 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | S | **122.8** | %REC | 1 | 12/23/2015 13:17 | 115190 |
| Surr: Toluene-d8 | | 86-116 | | **105.7** | %REC | 1 | 12/23/2015 13:17 | 115190 |

*Surrogate recovery is outside QC limits due to matrix interference.*

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-015
**Client Sample ID:** SCI-25B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **28.0** | % | 1 | 12/23/2015 20:18 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **9.50** | mg/Kg-dry | 1 | 12/24/2015 3:27 | 115163 |
| Barium | NELAP | 0.23 | | **183** | mg/Kg-dry | 1 | 12/24/2015 3:27 | 115163 |
| Cadmium | NELAP | 0.18 | | **0.28** | mg/Kg-dry | 1 | 12/24/2015 3:27 | 115163 |
| Chromium | NELAP | 0.45 | | **21.1** | mg/Kg-dry | 1 | 12/24/2015 3:27 | 115163 |
| Lead | NELAP | 1.36 | | **42.0** | mg/Kg-dry | 1 | 12/24/2015 3:27 | 115163 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 12/24/2015 3:27 | 115163 |
| Silver | NELAP | 0.45 | J | **0.19** | mg/Kg-dry | 1 | 12/24/2015 3:27 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.014 | | **0.486** | mg/Kg-dry | 1 | 12/23/2015 13:09 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Anthracene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Chrysene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Fluoranthene | NELAP | 0.0468 | J | **0.023** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Fluorene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Pyrene | NELAP | 0.0468 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| TPH-DRO (C10 - C21) | | 16.5 | | **34.2** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| TPH-ORO (C21 - C35) | | 16.5 | J | **15** | mg/Kg-dry | 1 | 12/23/2015 23:08 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **69.9** | %REC | 1 | 12/23/2015 23:08 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **67.1** | %REC | 1 | 12/23/2015 23:08 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **87.4** | %REC | 1 | 12/23/2015 23:08 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,1-Dichloro-2-propanone | | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,1-Dichloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,1-Dichloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,1-Dichloropropene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,2,3-Trimethylbenzene | | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,2-Dibromoethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,2-Dichloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-015
**Client Sample ID:** SCI-25B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,3-Dichloropropane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 1-Chlorobutane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 2,2-Dichloropropane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 2-Butanone | NELAP | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 2-Chlorotoluene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 2-Hexanone | NELAP | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 2-Nitropropane | NELAP | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 4-Chlorotoluene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Acetone | NELAP | 58.4 | J | **31** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Acetonitrile | NELAP | 117 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Acrolein | NELAP | 117 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Acrylonitrile | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Allyl chloride | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Benzene | NELAP | 1.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Bromobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Bromochloromethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Bromodichloromethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Bromoform | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Bromomethane | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Carbon disulfide | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Carbon tetrachloride | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Chlorobenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Chloroethane | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Chloroform | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Chloromethane | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Cyclohexanone | | 117 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Dibromochloromethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Dibromomethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Dichlorodifluoromethane | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Diisopropyl ether | | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Ethyl ether | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Ethyl methacrylate | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Ethylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Ethyl-tert-butyl ether | | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Hexachlorobutadiene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Hexachloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Iodomethane | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Isopropylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| m,p-Xylenes | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Methacrylonitrile | NELAP | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-015
**Client Sample ID:** SCI-25B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Methyl tert-butyl ether | NELAP | 2.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Methylacrylate | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Methylene chloride | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Naphthalene | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| n-Butylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| n-Heptane | | 23.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| n-Hexane | | 23.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Nitrobenzene | NELAP | 117 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| n-Propylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| o-Xylene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Pentachloroethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| p-Isopropyltoluene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Propionitrile | NELAP | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| sec-Butylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Styrene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| tert-Amyl methyl ether | | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| tert-Butyl alcohol | NELAP | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| tert-Butylbenzene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Tetrachloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Tetrahydrofuran | NELAP | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Toluene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| TPH - GRO (C6 - C10) | | 584 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 11.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Trichloroethene | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Trichlorofluoromethane | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Vinyl acetate | NELAP | 58.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Vinyl chloride | NELAP | 2.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Xylenes, Total | NELAP | 5.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:26 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **99.6** | %REC | 1 | 12/22/2015 13:26 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **108.8** | %REC | 1 | 12/22/2015 13:26 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **106.2** | %REC | 1 | 12/22/2015 13:26 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-016
**Client Sample ID:** SCI-26A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 12:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.8** | % | 1 | 12/23/2015 20:18 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.50 | | **11.2** | mg/Kg-dry | 1 | 12/24/2015 3:33 | 115163 |
| Barium | NELAP | 0.25 | | **198** | mg/Kg-dry | 1 | 12/24/2015 3:33 | 115163 |
| Cadmium | NELAP | 0.20 | J | **0.19** | mg/Kg-dry | 1 | 12/24/2015 3:33 | 115163 |
| Chromium | NELAP | 0.50 | | **19.2** | mg/Kg-dry | 1 | 12/24/2015 3:33 | 115163 |
| Lead | NELAP | 1.50 | | **14.0** | mg/Kg-dry | 1 | 12/24/2015 3:33 | 115163 |
| Selenium | NELAP | 4.00 | | **< 4.00** | mg/Kg-dry | 1 | 12/24/2015 3:33 | 115163 |
| Silver | NELAP | 0.50 | J | **0.16** | mg/Kg-dry | 1 | 12/24/2015 3:33 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.016** | mg/Kg-dry | 1 | 12/23/2015 13:12 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0429 | J | **0.026** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0429 | J | **0.023** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Chrysene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Fluoranthene | NELAP | 0.0429 | J | **0.042** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Fluorene | NELAP | 0.0429 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Pyrene | NELAP | 0.0429 | J | **0.035** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| TPH-DRO (C10 - C21) | | 15.1 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| TPH-ORO (C21 - C35) | | 15.1 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 22:38 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.2** | %REC | 1 | 12/23/2015 22:38 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **65.3** | %REC | 1 | 12/23/2015 22:38 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **88.3** | %REC | 1 | 12/23/2015 22:38 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,1-Dichloro-2-propanone | | 49.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,1-Dichloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,1-Dichloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,1-Dichloropropene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 9.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,2,3-Trimethylbenzene | | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,2-Dibromoethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,2-Dichloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-016
**Client Sample ID:** SCI-26A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 12:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,3-Dichloropropane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 1-Chlorobutane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 2,2-Dichloropropane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 2-Butanone | NELAP | 49.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 2-Chlorotoluene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 2-Hexanone | NELAP | 49.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 2-Nitropropane | NELAP | 49.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 4-Chlorotoluene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 49.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Acetone | NELAP | 49.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Acetonitrile | NELAP | 98.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Acrolein | NELAP | 98.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Acrylonitrile | NELAP | 9.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Allyl chloride | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Benzene | NELAP | 1.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Bromobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Bromochloromethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Bromodichloromethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Bromoform | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Bromomethane | NELAP | 9.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Carbon disulfide | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Carbon tetrachloride | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Chlorobenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Chloroethane | NELAP | 9.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Chloroform | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Chloromethane | NELAP | 9.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 4.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Cyclohexanone | | 98.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Dibromochloromethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Dibromomethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Dichlorodifluoromethane | NELAP | 9.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Diisopropyl ether | | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Ethyl ether | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Ethyl methacrylate | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Ethylbenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Ethyl-tert-butyl ether | | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Hexachlorobutadiene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Hexachloroethane | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Iodomethane | NELAP | 9.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Isopropylbenzene | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| m,p-Xylenes | NELAP | 5.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Methacrylonitrile | NELAP | 49.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-016
**Client Sample ID:** SCI-26A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 12:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Methyl tert-butyl ether | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Methylacrylate | NELAP | 9.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Methylene chloride | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Naphthalene | NELAP | 9.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| n-Butylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| n-Heptane | | 19.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| n-Hexane | | 19.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Nitrobenzene | NELAP | 98.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| n-Propylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| o-Xylene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Pentachloroethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| p-Isopropyltoluene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Propionitrile | NELAP | 49.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| sec-Butylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Styrene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| tert-Amyl methyl ether | | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| tert-Butyl alcohol | NELAP | 49.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| tert-Butylbenzene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Tetrachloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Tetrahydrofuran | NELAP | 49.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Toluene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| TPH - GRO (C6 - C10) | | 495 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 4.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Trichloroethene | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Trichlorofluoromethane | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Vinyl acetate | NELAP | 49.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Vinyl chloride | NELAP | 2.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Xylenes, Total | NELAP | 5.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 13:53 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.9** | %REC | 1 | 12/22/2015 13:53 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **112.7** | %REC | 1 | 12/22/2015 13:53 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **108.2** | %REC | 1 | 12/22/2015 13:53 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-017
**Client Sample ID:** SCI-26B (4-8)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 12:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **20.7** | % | 1 | 12/23/2015 20:18 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **6.99** | mg/Kg-dry | 1 | 12/24/2015 4:04 | 115163 |
| Barium | NELAP | 0.25 | | **132** | mg/Kg-dry | 1 | 12/24/2015 4:04 | 115163 |
| Cadmium | NELAP | 0.20 | | **0.28** | mg/Kg-dry | 1 | 12/24/2015 4:04 | 115163 |
| Chromium | NELAP | 0.49 | | **22.6** | mg/Kg-dry | 1 | 12/24/2015 4:04 | 115163 |
| Lead | NELAP | 1.47 | | **9.95** | mg/Kg-dry | 1 | 12/24/2015 4:04 | 115163 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 12/24/2015 4:04 | 115163 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 12/24/2015 4:04 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | J | **0.009** | mg/Kg-dry | 1 | 12/23/2015 13:14 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Chrysene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Fluorene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Pyrene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| TPH-DRO (C10 - C21) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| TPH-ORO (C21 - C35) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 18:43 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **75.4** | %REC | 1 | 12/23/2015 18:43 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **68.6** | %REC | 1 | 12/23/2015 18:43 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **88.5** | %REC | 1 | 12/23/2015 18:43 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,1-Dichloro-2-propanone | | 45.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,2-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-017 **Client Sample ID:** SCI-26B (4-8)

**Matrix:** SOLID **Collection Date:** 12/21/2015 12:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 2-Butanone | NELAP | 45.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 2-Hexanone | NELAP | 45.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 2-Nitropropane | NELAP | 45.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 45.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Acetone | NELAP | 45.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Acetonitrile | NELAP | 91.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Acrolein | NELAP | 91.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Acrylonitrile | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Bromomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Chloroethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Chloromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Cyclohexanone | | 91.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Dichlorodifluoromethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Iodomethane | NELAP | 9.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| m,p-Xylenes | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Methacrylonitrile | NELAP | 45.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-017
**Client Sample ID:** SCI-26B (4-8)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 12:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Methylacrylate | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Naphthalene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| n-Heptane | | 18.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| n-Hexane | | 18.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Nitrobenzene | NELAP | 91.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Propionitrile | NELAP | 45.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| tert-Butyl alcohol | NELAP | 45.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Tetrahydrofuran | NELAP | 45.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| TPH - GRO (C6 - C10) | | 455 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Vinyl acetate | NELAP | 45.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:19 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.4** | %REC | 1 | 12/22/2015 14:19 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.9** | %REC | 1 | 12/22/2015 14:19 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **104.9** | %REC | 1 | 12/22/2015 14:19 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-018 **Client Sample ID:** SCI-27A (0-3)

**Matrix:** SOLID **Collection Date:** 12/21/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **11.8** | % | 1 | 12/23/2015 20:19 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.27 | | **4.66** | mg/Kg-dry | 1 | 12/24/2015 4:10 | 115163 |
| Barium | NELAP | 0.23 | | **67.1** | mg/Kg-dry | 1 | 12/24/2015 4:10 | 115163 |
| Cadmium | NELAP | 0.18 | | **0.44** | mg/Kg-dry | 1 | 12/24/2015 4:10 | 115163 |
| Chromium | NELAP | 0.45 | | **9.45** | mg/Kg-dry | 1 | 12/24/2015 4:10 | 115163 |
| Lead | NELAP | 1.36 | | **126** | mg/Kg-dry | 1 | 12/24/2015 4:10 | 115163 |
| Selenium | NELAP | 3.64 | | **< 3.64** | mg/Kg-dry | 1 | 12/24/2015 4:10 | 115163 |
| Silver | NELAP | 0.45 | J | **0.15** | mg/Kg-dry | 1 | 12/24/2015 4:10 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.011 | | **0.205** | mg/Kg-dry | 1 | 12/23/2015 13:16 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Anthracene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Benzo(a)anthracene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Benzo(a)pyrene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Benzo(b)fluoranthene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Benzo(k)fluoranthene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Chrysene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Fluoranthene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Fluorene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Pyrene | NELAP | 3.85 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| TPH-DRO (C10 - C21) | | 1360 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| TPH-ORO (C21 - C35) | | 1360 | | **ND** | mg/Kg-dry | 100 | 12/25/2015 4:10 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **71.9** | %REC | 100 | 12/25/2015 4:10 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **63.9** | %REC | 100 | 12/25/2015 4:10 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **87.8** | %REC | 100 | 12/25/2015 4:10 | 115140 |
| *Elevated reporting limit due to sample extract composition.* | | | | | | | | |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,1-Dichloro-2-propanone | | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-018 **Client Sample ID:** SCI-27A (0-3)

**Matrix:** SOLID **Collection Date:** 12/21/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 2-Butanone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 2-Hexanone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 2-Nitropropane | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Acetone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Acetonitrile | NELAP | 88.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Acrolein | NELAP | 88.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Acrylonitrile | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Bromomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Chloroethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Chloromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Cyclohexanone | | 88.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Dichlorodifluoromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Iodomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-018
**Client Sample ID:** SCI-27A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Methylacrylate | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Naphthalene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| n-Heptane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| n-Hexane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Nitrobenzene | NELAP | 88.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Propionitrile | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| tert-Butyl alcohol | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Tetrahydrofuran | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| TPH - GRO (C6 - C10) | | 441 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Vinyl acetate | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 14:46 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.7** | %REC | 1 | 12/22/2015 14:46 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **104.3** | %REC | 1 | 12/22/2015 14:46 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **106.5** | %REC | 1 | 12/22/2015 14:46 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-019
**Client Sample ID:** SCI-27B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.1** | % | 1 | 12/23/2015 20:19 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **10.6** | mg/Kg-dry | 1 | 12/24/2015 4:16 | 115163 |
| Barium | NELAP | 0.24 | | **95.3** | mg/Kg-dry | 1 | 12/24/2015 4:16 | 115163 |
| Cadmium | NELAP | 0.19 | | **0.29** | mg/Kg-dry | 1 | 12/24/2015 4:16 | 115163 |
| Chromium | NELAP | 0.47 | | **51.3** | mg/Kg-dry | 1 | 12/24/2015 4:16 | 115163 |
| Lead | NELAP | 1.42 | | **16.7** | mg/Kg-dry | 1 | 12/24/2015 4:16 | 115163 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/24/2015 4:16 | 115163 |
| Silver | NELAP | 0.47 | | **< 0.47** | mg/Kg-dry | 1 | 12/24/2015 4:16 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.047** | mg/Kg-dry | 1 | 12/23/2015 13:19 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Anthracene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Chrysene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Fluoranthene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Fluorene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Pyrene | NELAP | 0.0412 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| TPH-DRO (C10 - C21) | | 14.6 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| TPH-ORO (C21 - C35) | | 14.6 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 15:52 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **81.9** | %REC | 1 | 12/22/2015 15:52 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **73.6** | %REC | 1 | 12/22/2015 15:52 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **91.8** | %REC | 1 | 12/22/2015 15:52 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,1-Dichloro-2-propanone | | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,1-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,1-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,1-Dichloropropene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,2,3-Trimethylbenzene | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,2-Dibromoethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,2-Dichloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |

# Laboratory Results

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**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-019
**Client Sample ID:** SCI-27B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,3-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 1-Chlorobutane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 2,2-Dichloropropane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 2-Butanone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 2-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 2-Hexanone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 2-Nitropropane | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 4-Chlorotoluene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Acetone | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Acetonitrile | NELAP | 88.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Acrolein | NELAP | 88.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Acrylonitrile | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Allyl chloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Bromobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Bromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Bromodichloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Bromoform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Bromomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Carbon disulfide | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Carbon tetrachloride | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Chlorobenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Chloroethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Chloroform | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Chloromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 3.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Cyclohexanone | | 88.2 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Dibromochloromethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Dibromomethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Dichlorodifluoromethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Diisopropyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Ethyl ether | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Ethyl methacrylate | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Ethylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Ethyl-tert-butyl ether | | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Hexachlorobutadiene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Hexachloroethane | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Iodomethane | NELAP | 8.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Isopropylbenzene | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| m,p-Xylenes | NELAP | 4.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Methacrylonitrile | NELAP | 44.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121500-019
**Matrix:** SOLID

**Work Order:** 15121500
**Report Date:** 28-Dec-15
**Client Sample ID:** SCI-27B (16-20)
**Collection Date:** 12/21/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Methylacrylate | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Methylene chloride | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Naphthalene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| n-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| n-Heptane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| n-Hexane | | 17.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Nitrobenzene | NELAP | 88.2 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| n-Propylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| o-Xylene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Pentachloroethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| p-Isopropyltoluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Propionitrile | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| sec-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Styrene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| tert-Amyl methyl ether | | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| tert-Butyl alcohol | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| tert-Butylbenzene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Tetrachloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Tetrahydrofuran | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Toluene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| TPH - GRO (C6 - C10) | | 441 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 3.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Trichloroethene | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Trichlorofluoromethane | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Vinyl acetate | NELAP | 44.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Xylenes, Total | NELAP | 4.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:12 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.7** | %REC | 1 | 12/22/2015 15:12 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **102.8** | %REC | 1 | 12/22/2015 15:12 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **104.6** | %REC | 1 | 12/22/2015 15:12 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-020
**Client Sample ID:** SCI-28A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.9** | % | 1 | 12/23/2015 20:19 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.31 | | **10.7** | mg/Kg-dry | 1 | 12/24/2015 4:22 | 115163 |
| Barium | NELAP | 0.23 | | **163** | mg/Kg-dry | 1 | 12/24/2015 4:22 | 115163 |
| Cadmium | NELAP | 0.19 | | **0.53** | mg/Kg-dry | 1 | 12/24/2015 4:22 | 115163 |
| Chromium | NELAP | 0.46 | | **22.0** | mg/Kg-dry | 1 | 12/24/2015 4:22 | 115163 |
| Lead | NELAP | 1.39 | | **107** | mg/Kg-dry | 1 | 12/24/2015 4:22 | 115163 |
| Selenium | NELAP | 3.70 | | **< 3.70** | mg/Kg-dry | 1 | 12/24/2015 4:22 | 115163 |
| Silver | NELAP | 0.46 | J | **0.23** | mg/Kg-dry | 1 | 12/24/2015 4:22 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.104** | mg/Kg-dry | 1 | 12/23/2015 13:25 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Anthracene | NELAP | 0.0410 | J | **0.029** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Benzo(a)anthracene | NELAP | 0.0410 | | **0.134** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Benzo(a)pyrene | NELAP | 0.0410 | | **0.124** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Benzo(b)fluoranthene | NELAP | 0.0410 | | **0.212** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Benzo(k)fluoranthene | NELAP | 0.0410 | | **0.0663** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Chrysene | NELAP | 0.0410 | | **0.133** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Dibenzo(a,h)anthracene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Fluoranthene | NELAP | 0.0410 | | **0.262** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Fluorene | NELAP | 0.0410 | | **ND** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Pyrene | NELAP | 0.0410 | | **0.230** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| TPH-DRO (C10 - C21) | | 14.5 | J | **8.1** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| TPH-ORO (C21 - C35) | | 14.5 | J | **8.4** | mg/Kg-dry | 1 | 12/24/2015 6:38 | 115104 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **75.6** | %REC | 1 | 12/24/2015 6:38 | 115104 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **66.7** | %REC | 1 | 12/24/2015 6:38 | 115104 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **84.6** | %REC | 1 | 12/24/2015 6:38 | 115104 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,1-Dichloro-2-propanone | | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,1-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,1-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,1-Dichloropropene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,2,3-Trimethylbenzene | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,2-Dibromoethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,2-Dichloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-020
**Client Sample ID:** SCI-28A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,3-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 1-Chlorobutane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 2,2-Dichloropropane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 2-Butanone | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 2-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 2-Hexanone | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 2-Nitropropane | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 4-Chlorotoluene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Acetone | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Acetonitrile | NELAP | 93.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Acrolein | NELAP | 93.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Acrylonitrile | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Allyl chloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Bromobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Bromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Bromodichloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Bromoform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Bromomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Carbon disulfide | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Carbon tetrachloride | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Chlorobenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Chloroethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Chloroform | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Chloromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Cyclohexanone | | 93.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Dibromochloromethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Dibromomethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Dichlorodifluoromethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Diisopropyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Ethyl ether | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Ethyl methacrylate | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Ethylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Ethyl-tert-butyl ether | | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Hexachlorobutadiene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Hexachloroethane | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Iodomethane | NELAP | 9.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Isopropylbenzene | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| m,p-Xylenes | NELAP | 4.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Methacrylonitrile | NELAP | 46.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-020
**Client Sample ID:** SCI-28A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Methyl tert-butyl ether | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Methylacrylate | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Methylene chloride | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Naphthalene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| n-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| n-Heptane | | 18.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| n-Hexane | | 18.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Nitrobenzene | NELAP | 93.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| n-Propylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| o-Xylene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Pentachloroethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| p-Isopropyltoluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Propionitrile | NELAP | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| sec-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Styrene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| tert-Amyl methyl ether | | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| tert-Butyl alcohol | NELAP | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| tert-Butylbenzene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Tetrachloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Tetrahydrofuran | NELAP | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Toluene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| TPH - GRO (C6 - C10) | | 467 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Trichloroethene | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Trichlorofluoromethane | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Vinyl acetate | NELAP | 46.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Vinyl chloride | NELAP | 1.9 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Xylenes, Total | NELAP | 4.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 15:38 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.9** | %REC | 1 | 12/22/2015 15:38 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **108.1** | %REC | 1 | 12/22/2015 15:38 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **106.6** | %REC | 1 | 12/22/2015 15:38 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-021
**Client Sample ID:** SCI-28B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **19.4** | % | 1 | 12/23/2015 20:20 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **8.46** | mg/Kg-dry | 1 | 12/24/2015 4:28 | 115163 |
| Barium | NELAP | 0.24 | | **200** | mg/Kg-dry | 1 | 12/24/2015 4:28 | 115163 |
| Cadmium | NELAP | 0.19 | | **0.29** | mg/Kg-dry | 1 | 12/24/2015 4:28 | 115163 |
| Chromium | NELAP | 0.47 | | **23.7** | mg/Kg-dry | 1 | 12/24/2015 4:28 | 115163 |
| Lead | NELAP | 1.42 | | **10.2** | mg/Kg-dry | 1 | 12/24/2015 4:28 | 115163 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/24/2015 4:28 | 115163 |
| Silver | NELAP | 0.47 | J | **0.19** | mg/Kg-dry | 1 | 12/24/2015 4:28 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.026** | mg/Kg-dry | 1 | 12/23/2015 13:28 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Chrysene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Fluoranthene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Fluorene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Pyrene | NELAP | 0.0420 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| TPH-DRO (C10 - C21) | | 14.8 | J | **7.4** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| TPH-ORO (C21 - C35) | | 14.8 | | **ND** | mg/Kg-dry | 1 | 12/22/2015 16:22 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **80.8** | %REC | 1 | 12/22/2015 16:22 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **75.0** | %REC | 1 | 12/22/2015 16:22 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **91.7** | %REC | 1 | 12/22/2015 16:22 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,1-Dichloro-2-propanone | | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,2-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-021
**Client Sample ID:** SCI-28B (16-20)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 2-Butanone | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 2-Hexanone | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 2-Nitropropane | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Acetone | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Acetonitrile | NELAP | 90.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Acrolein | NELAP | 90.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Acrylonitrile | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Bromomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Chloroethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Chloromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Cyclohexanone | | 90.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Dichlorodifluoromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Iodomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Methacrylonitrile | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121500-021
**Matrix:** SOLID

**Work Order:** 15121500
**Report Date:** 28-Dec-15
**Client Sample ID:** SCI-28B (16-20)
**Collection Date:** 12/21/2015 14:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Methylacrylate | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Naphthalene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| n-Heptane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| n-Hexane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Nitrobenzene | NELAP | 90.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Propionitrile | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| tert-Butyl alcohol | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Tetrahydrofuran | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Toluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| TPH - GRO (C6 - C10) | | 451 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Vinyl acetate | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:05 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **104.3** | %REC | 1 | 12/22/2015 16:05 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **100.9** | %REC | 1 | 12/22/2015 16:05 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **104.1** | %REC | 1 | 12/22/2015 16:05 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-022
**Client Sample ID:** SCI-27D (16-20)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.1** | % | 1 | 12/23/2015 20:20 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.45 | | **6.32** | mg/Kg-dry | 1 | 12/24/2015 4:34 | 115163 |
| Barium | NELAP | 0.25 | | **89.1** | mg/Kg-dry | 1 | 12/24/2015 4:34 | 115163 |
| Cadmium | NELAP | 0.20 | | **0.26** | mg/Kg-dry | 1 | 12/24/2015 4:34 | 115163 |
| Chromium | NELAP | 0.49 | | **22.2** | mg/Kg-dry | 1 | 12/24/2015 4:34 | 115163 |
| Lead | NELAP | 1.47 | | **12.4** | mg/Kg-dry | 1 | 12/24/2015 4:34 | 115163 |
| Selenium | NELAP | 3.92 | | **< 3.92** | mg/Kg-dry | 1 | 12/24/2015 4:34 | 115163 |
| Silver | NELAP | 0.49 | | **< 0.49** | mg/Kg-dry | 1 | 12/24/2015 4:34 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.041** | mg/Kg-dry | 1 | 12/23/2015 13:34 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Anthracene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Benzo(a)anthracene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Benzo(a)pyrene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Benzo(b)fluoranthene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Benzo(k)fluoranthene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Chrysene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Fluoranthene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Fluorene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Pyrene | NELAP | 0.0400 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| TPH-DRO (C10 - C21) | | 14.1 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| TPH-ORO (C21 - C35) | | 14.1 | | **ND** | mg/Kg-dry | 1 | 12/23/2015 19:13 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **74.7** | %REC | 1 | 12/23/2015 19:13 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **68.7** | %REC | 1 | 12/23/2015 19:13 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **88.0** | %REC | 1 | 12/23/2015 19:13 | 115140 |
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,1-Dichloro-2-propanone | | 40.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,1-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,1-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,1-Dichloropropene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 8.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,2,3-Trimethylbenzene | | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,2-Dibromoethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,2-Dichloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-022
**Client Sample ID:** SCI-27D (16-20)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,3-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 1-Chlorobutane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 2,2-Dichloropropane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 2-Butanone | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 2-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 2-Hexanone | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 2-Nitropropane | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 4-Chlorotoluene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Acetone | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Acetonitrile | NELAP | 81.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Acrolein | NELAP | 81.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Acrylonitrile | NELAP | 8.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Allyl chloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Benzene | NELAP | 0.8 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Bromobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Bromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Bromodichloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Bromoform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Bromomethane | NELAP | 8.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Carbon disulfide | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Carbon tetrachloride | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Chlorobenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Chloroethane | NELAP | 8.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Chloroform | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Chloromethane | NELAP | 8.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 3.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Cyclohexanone | | 81.4 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Dibromochloromethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Dibromomethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Dichlorodifluoromethane | NELAP | 8.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Diisopropyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Ethyl ether | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Ethyl methacrylate | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Ethylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Ethyl-tert-butyl ether | | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Hexachlorobutadiene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Hexachloroethane | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Iodomethane | NELAP | 8.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Isopropylbenzene | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| m,p-Xylenes | NELAP | 4.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Methacrylonitrile | NELAP | 40.7 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21
**Lab ID:** 15121500-022
**Matrix:** SOLID

**Work Order:** 15121500
**Report Date:** 28-Dec-15
**Client Sample ID:** SCI-27D (16-20)
**Collection Date:** 12/21/2015 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methyl Methacrylate | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Methyl tert-butyl ether | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Methylacrylate | NELAP | 8.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Methylene chloride | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Naphthalene | NELAP | 8.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| n-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| n-Heptane | | 16.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| n-Hexane | | 16.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Nitrobenzene | NELAP | 81.4 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| n-Propylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| o-Xylene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Pentachloroethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| p-Isopropyltoluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Propionitrile | NELAP | 40.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| sec-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Styrene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| tert-Amyl methyl ether | | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| tert-Butyl alcohol | NELAP | 40.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| tert-Butylbenzene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Tetrachloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Tetrahydrofuran | NELAP | 40.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Toluene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| TPH - GRO (C6 - C10) | | 407 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 3.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 8.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Trichloroethene | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Trichlorofluoromethane | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Vinyl acetate | NELAP | 40.7 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Vinyl chloride | NELAP | 1.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Xylenes, Total | NELAP | 4.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:31 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **102.7** | %REC | 1 | 12/22/2015 16:31 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **101.3** | %REC | 1 | 12/22/2015 16:31 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **105.5** | %REC | 1 | 12/22/2015 16:31 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-023
**Client Sample ID:** SCI-29A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **17.0** | % | 1 | 12/23/2015 20:21 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.36 | | **10.1** | mg/Kg-dry | 1 | 12/24/2015 4:40 | 115163 |
| Barium | NELAP | 0.24 | | **272** | mg/Kg-dry | 1 | 12/24/2015 4:40 | 115163 |
| Cadmium | NELAP | 0.19 | | **1.75** | mg/Kg-dry | 1 | 12/24/2015 4:40 | 115163 |
| Chromium | NELAP | 0.47 | | **21.3** | mg/Kg-dry | 1 | 12/24/2015 4:40 | 115163 |
| Lead | NELAP | 1.42 | | **250** | mg/Kg-dry | 1 | 12/24/2015 4:40 | 115163 |
| Selenium | NELAP | 3.77 | | **< 3.77** | mg/Kg-dry | 1 | 12/24/2015 4:40 | 115163 |
| Silver | NELAP | 0.47 | J | **0.37** | mg/Kg-dry | 1 | 12/24/2015 4:40 | 115163 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.012 | | **0.146** | mg/Kg-dry | 1 | 12/23/2015 13:37 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 2.03 | J | **1.0** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Anthracene | NELAP | 2.03 | | **2.46** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Benzo(a)anthracene | NELAP | 2.03 | | **7.55** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Benzo(a)pyrene | NELAP | 2.03 | | **6.48** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Benzo(b)fluoranthene | NELAP | 2.03 | | **9.24** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Benzo(k)fluoranthene | NELAP | 2.03 | | **2.78** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Chrysene | NELAP | 2.03 | | **6.73** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 2.03 | | **ND** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Fluoranthene | NELAP | 2.03 | | **16.6** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Fluorene | NELAP | 2.03 | | **ND** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Pyrene | NELAP | 2.03 | | **14.3** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| TPH-DRO (C10 - C21) | | 715 | | **ND** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| TPH-ORO (C21 - C35) | | 715 | | **ND** | mg/Kg-dry | 50 | 12/25/2015 5:10 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **85.8** | %REC | 50 | 12/25/2015 5:10 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **73.9** | %REC | 50 | 12/25/2015 5:10 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **101.8** | %REC | 50 | 12/25/2015 5:10 | 115140 |

*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,1,1-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,1,2-Trichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,1-Dichloro-2-propanone | | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,1-Dichloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,1-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,1-Dichloropropene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,2,3-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,2,3-Trichloropropane | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,2,3-Trimethylbenzene | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,2,4-Trichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,2,4-Trimethylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,2-Dibromoethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,2-Dichlorobenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-023 **Client Sample ID:** SCI-29A (0-3)

**Matrix:** SOLID **Collection Date:** 12/21/2015 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,3,5-Trimethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,3-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,3-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1,4-Dichlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 1-Chlorobutane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 2,2-Dichloropropane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 2-Butanone | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 2-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 2-Hexanone | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 2-Nitropropane | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 4-Chlorotoluene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| 4-Methyl-2-pentanone | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Acetone | NELAP | 45.1 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Acetonitrile | NELAP | 90.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Acrolein | NELAP | 90.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Acrylonitrile | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Allyl chloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Bromobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Bromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Bromodichloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Bromoform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Bromomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Carbon disulfide | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Carbon tetrachloride | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Chlorobenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Chloroethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Chloroform | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Chloromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| cis-1,2-Dichloroethene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| cis-1,3-Dichloropropene | NELAP | 3.6 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Cyclohexanone | | 90.3 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Dibromochloromethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Dibromomethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Dichlorodifluoromethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Diisopropyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Ethyl ether | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Ethyl methacrylate | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Ethylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Ethyl-tert-butyl ether | | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Hexachlorobutadiene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Hexachloroethane | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Iodomethane | NELAP | 9.0 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Isopropylbenzene | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| m,p-Xylenes | NELAP | 4.5 | | ND | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-023
**Client Sample ID:** SCI-29A (0-3)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Methacrylonitrile | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Methyl Methacrylate | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Methylacrylate | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Methylene chloride | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Naphthalene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| n-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| n-Heptane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| n-Hexane | | 18.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Nitrobenzene | NELAP | 90.3 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| n-Propylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| o-Xylene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Pentachloroethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| p-Isopropyltoluene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Propionitrile | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| sec-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Styrene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| tert-Amyl methyl ether | | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| tert-Butyl alcohol | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| tert-Butylbenzene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Tetrachloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Tetrahydrofuran | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Toluene | NELAP | 4.5 | J | **0.9** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| TPH - GRO (C6 - C10) | | 451 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| trans-1,2-Dichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| trans-1,3-Dichloropropene | NELAP | 3.6 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.0 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Trichloroethene | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Trichlorofluoromethane | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Vinyl acetate | NELAP | 45.1 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Xylenes, Total | NELAP | 4.5 | | **ND** | µg/Kg-dry | 1 | 12/22/2015 16:58 | 115155 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **100.2** | %REC | 1 | 12/22/2015 16:58 | 115155 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | | **104.0** | %REC | 1 | 12/22/2015 16:58 | 115155 |
| Surr: Toluene-d8 | | 86-116 | | **108.9** | %REC | 1 | 12/22/2015 16:58 | 115155 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-024 **Client Sample ID:** SCI-29B (4-8)

**Matrix:** SOLID **Collection Date:** 12/21/2015 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA SW846 3550C, 5035A, ASTM D2974** | | | | | | | | |
| Percent Moisture | | 0.1 | | **21.0** | % | 1 | 12/23/2015 20:21 | R213088 |
| **SW-846 3050B, 6010B, METALS BY ICP** | | | | | | | | |
| Arsenic | NELAP | 2.40 | | **12.1** | mg/Kg-dry | 1 | 12/23/2015 21:06 | 115118 |
| Barium | NELAP | 0.24 | | **309** | mg/Kg-dry | 1 | 12/23/2015 21:06 | 115118 |
| Cadmium | NELAP | 0.19 | | **3.70** | mg/Kg-dry | 1 | 12/23/2015 21:06 | 115118 |
| Chromium | NELAP | 0.48 | | **23.7** | mg/Kg-dry | 1 | 12/23/2015 21:06 | 115118 |
| Lead | NELAP | 1.44 | | **787** | mg/Kg-dry | 1 | 12/23/2015 21:06 | 115118 |
| Selenium | NELAP | 3.85 | | **< 3.85** | mg/Kg-dry | 1 | 12/23/2015 21:06 | 115118 |
| Silver | NELAP | 0.48 | | **< 0.48** | mg/Kg-dry | 1 | 12/23/2015 21:06 | 115118 |
| **SW-846 7471B** | | | | | | | | |
| Mercury | NELAP | 0.013 | | **0.508** | mg/Kg-dry | 1 | 12/23/2015 13:39 | 115173 |
| **SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| Acenaphthene | NELAP | 2.12 | | **ND** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Anthracene | NELAP | 2.12 | | **2.37** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Benzo(a)anthracene | NELAP | 2.12 | | **7.89** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Benzo(a)pyrene | NELAP | 2.12 | | **6.66** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Benzo(b)fluoranthene | NELAP | 2.12 | | **9.32** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Benzo(k)fluoranthene | NELAP | 2.12 | | **3.12** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Chrysene | NELAP | 2.12 | | **7.41** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Dibenzo(a,h)anthracene | NELAP | 2.12 | | **ND** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Fluoranthene | NELAP | 2.12 | | **17.0** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Fluorene | NELAP | 2.12 | | **ND** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Pyrene | NELAP | 2.12 | | **15.0** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| TPH-DRO (C10 - C21) | | 749 | S | **ND** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| TPH-ORO (C21 - C35) | | 749 | | **ND** | mg/Kg-dry | 50 | 12/25/2015 2:40 | 115140 |
| Surr: 2-Fluorobiphenyl | | 12-133 | | **67.9** | %REC | 50 | 12/25/2015 2:40 | 115140 |
| Surr: Nitrobenzene-d5 | | 30.9-115 | | **61.9** | %REC | 50 | 12/25/2015 2:40 | 115140 |
| Surr: p-Terphenyl-d14 | | 31.5-137 | | **91.8** | %REC | 50 | 12/25/2015 2:40 | 115140 |

*MS and MSD did not recover within control limits due to sample dilution.*
*Elevated reporting limit due to sample extract composition.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,1,1-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,1,2,2-Tetrachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,1,2-Trichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,1-Dichloro-2-propanone | | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,1-Dichloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,1-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,1-Dichloropropene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,2,3-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,2,3-Trichloropropane | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,2,3-Trimethylbenzene | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,2,4-Trichlorobenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,2,4-Trimethylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,2-Dibromo-3-chloropropane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,2-Dibromoethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

**Lab ID:** 15121500-024 **Client Sample ID:** SCI-29B (4-8)

**Matrix:** SOLID **Collection Date:** 12/21/2015 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| 1,2-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,2-Dichloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,3,5-Trimethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,3-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,3-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1,4-Dichlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 1-Chlorobutane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 2,2-Dichloropropane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 2-Butanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 2-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 2-Hexanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 2-Nitropropane | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 4-Chlorotoluene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| 4-Methyl-2-pentanone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Acetone | NELAP | 45.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Acetonitrile | NELAP | 91.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Acrolein | NELAP | 91.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Acrylonitrile | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Allyl chloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Benzene | NELAP | 0.9 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Bromobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Bromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Bromodichloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Bromoform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Bromomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Carbon disulfide | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Carbon tetrachloride | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Chlorobenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Chloroethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Chloroform | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Chloromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| cis-1,2-Dichloroethene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| cis-1,3-Dichloropropene | NELAP | 3.7 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Cyclohexanone | | 91.5 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Dibromochloromethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Dibromomethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Dichlorodifluoromethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Diisopropyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Ethyl ether | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Ethyl methacrylate | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Ethylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Ethyl-tert-butyl ether | | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Hexachlorobutadiene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Hexachloroethane | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Iodomethane | NELAP | 9.2 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Isopropylbenzene | NELAP | 4.6 | | ND | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Work Order:** 15121500
**Client Project:** NGA 2015-0461.21
**Report Date:** 28-Dec-15
**Lab ID:** 15121500-024
**Client Sample ID:** SCI-29B (4-8)
**Matrix:** SOLID
**Collection Date:** 12/21/2015 15:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | | | |
| m,p-Xylenes | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Methacrylonitrile | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Methyl Methacrylate | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Methyl tert-butyl ether | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Methylacrylate | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Methylene chloride | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Naphthalene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| n-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| n-Heptane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| n-Hexane | | 18.3 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Nitrobenzene | NELAP | 91.5 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| n-Propylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| o-Xylene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Pentachloroethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| p-Isopropyltoluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Propionitrile | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| sec-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Styrene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| tert-Amyl methyl ether | | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| tert-Butyl alcohol | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| tert-Butylbenzene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Tetrachloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Tetrahydrofuran | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Toluene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| TPH - GRO (C6 - C10) | | 457 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| trans-1,2-Dichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| trans-1,3-Dichloropropene | NELAP | 3.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| trans-1,4-Dichloro-2-butene | NELAP | 9.2 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Trichloroethene | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Trichlorofluoromethane | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Vinyl acetate | NELAP | 45.7 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Vinyl chloride | NELAP | 1.8 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Xylenes, Total | NELAP | 4.6 | | **ND** | µg/Kg-dry | 1 | 12/23/2015 13:43 | 115190 |
| Surr: 1,2-Dichloroethane-d4 | | 72.2-131 | | **103.2** | %REC | 1 | 12/23/2015 13:43 | 115190 |
| Surr: 4-Bromofluorobenzene | | 82.1-116 | S | **126.5** | %REC | 1 | 12/23/2015 13:43 | 115190 |
| Surr: Toluene-d8 | | 86-116 | | **105.3** | %REC | 1 | 12/23/2015 13:43 | 115190 |

*Surrogate recovery is outside QC limits due to matrix interference.*

# Quality Control Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

## EPA SW846 3550C, 5035A, ASTM D2974

**Batch** R213088 **SampType:** LCS Units **%**
SampID: LCS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 12/23/2015 |

**Batch** R213088 **SampType:** LCSQC Units **%**
SampID: LCSQC

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 0.1 | | **99.0** | 99.00 | 0 | 100.0 | 90 | 110 | 12/23/2015 |

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115118 **SampType:** MBLK Units **mg/Kg-dry**
SampID: MBLK-115118

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Barium | 0.25 | | **< 0.25** | 0.2500 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 12/23/2015 |
| Silver | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 12/23/2015 |

**Batch** 115118 **SampType:** LCS Units **mg/Kg-dry**
SampID: LCS-115118

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **48.4** | 50.00 | 0 | 96.9 | 85 | 115 | 12/23/2015 |
| Barium | 0.25 | | **199** | 200.0 | 0 | 99.7 | 85 | 115 | 12/23/2015 |
| Cadmium | 0.20 | | **4.95** | 5.000 | 0 | 99.0 | 85 | 115 | 12/23/2015 |
| Chromium | 0.50 | | **21.0** | 20.00 | 0 | 104.9 | 85 | 115 | 12/23/2015 |
| Lead | 1.50 | | **52.2** | 50.00 | 0 | 104.3 | 85 | 115 | 12/23/2015 |
| Selenium | 4.00 | | **49.0** | 50.00 | 0 | 98.1 | 85 | 115 | 12/23/2015 |
| Silver | 0.50 | | **4.79** | 5.000 | 0 | 95.8 | 85 | 115 | 12/23/2015 |

**Batch** 115118 **SampType:** MS Units **mg/Kg-dry**
SampID: 15121426-004AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.31 | | **50.1** | 46.30 | 9.315 | 88.1 | 75 | 125 | 12/23/2015 |
| Barium | 0.23 | | **251** | 185.2 | 70.06 | 97.6 | 75 | 125 | 12/23/2015 |
| Cadmium | 0.19 | | **8.48** | 4.630 | 2.944 | 119.6 | 75 | 125 | 12/23/2015 |
| Chromium | 0.46 | | **43.9** | 18.52 | 28.06 | 85.5 | 75 | 125 | 12/23/2015 |
| Selenium | 3.70 | | **41.9** | 46.30 | 0 | 90.5 | 75 | 125 | 12/23/2015 |
| Silver | 0.46 | | **4.39** | 4.630 | 0 | 94.8 | 75 | 125 | 12/23/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115118 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**

SampID: 15121426-004AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.31 | | **49.7** | 46.30 | 9.315 | 87.3 | 50.08 | 0.74 | 12/23/2015 |
| Barium | 0.23 | | **248** | 185.2 | 70.06 | 96.0 | 250.7 | 1.15 | 12/23/2015 |
| Cadmium | 0.19 | | **7.55** | 4.630 | 2.944 | 99.4 | 8.481 | 11.67 | 12/23/2015 |
| Chromium | 0.46 | | **43.7** | 18.52 | 28.06 | 84.2 | 43.89 | 0.53 | 12/23/2015 |
| Selenium | 3.70 | | **42.4** | 46.30 | 0 | 91.5 | 41.92 | 1.08 | 12/23/2015 |
| Silver | 0.46 | | **4.34** | 4.630 | 0 | 93.8 | 4.389 | 1.06 | 12/23/2015 |

**Batch** 115163 **SampType:** MBLK Units **mg/Kg-dry**

SampID: MBLK-115163

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Barium | 0.25 | | **< 0.25** | 0.2500 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Chromium | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 12/24/2015 |
| Silver | 0.50 | | **< 0.50** | 0.5000 | 0 | 0 | -100 | 100 | 12/24/2015 |

**Batch** 115163 **SampType:** LCS Units **mg/Kg-dry**

SampID: LCS-115163

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **48.7** | 50.00 | 0 | 97.4 | 85 | 115 | 12/24/2015 |
| Barium | 0.25 | | **195** | 200.0 | 0 | 97.5 | 85 | 115 | 12/24/2015 |
| Cadmium | 0.20 | | **5.03** | 5.000 | 0 | 100.6 | 85 | 115 | 12/24/2015 |
| Chromium | 0.50 | | **21.0** | 20.00 | 0 | 105.0 | 85 | 115 | 12/24/2015 |
| Lead | 1.50 | | **53.2** | 50.00 | 0 | 106.4 | 85 | 115 | 12/24/2015 |
| Selenium | 4.00 | | **51.2** | 50.00 | 0 | 102.4 | 85 | 115 | 12/24/2015 |
| Silver | 0.50 | | **4.89** | 5.000 | 0 | 97.8 | 85 | 115 | 12/24/2015 |

**Batch** 115163 **SampType:** MS Units **mg/Kg-dry**

SampID: 15121500-006AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **58.3** | 50.00 | 9.570 | 97.5 | 75 | 125 | 12/24/2015 |
| Barium | 0.25 | | **375** | 200.0 | 177.4 | 99.0 | 75 | 125 | 12/24/2015 |
| Cadmium | 0.20 | | **5.79** | 5.000 | 0.8500 | 98.8 | 75 | 125 | 12/24/2015 |
| Chromium | 0.50 | | **40.9** | 20.00 | 19.82 | 105.3 | 75 | 125 | 12/24/2015 |
| Selenium | 4.00 | | **48.0** | 50.00 | 0 | 95.9 | 75 | 125 | 12/24/2015 |
| Silver | 0.50 | | **5.01** | 5.000 | 0.2700 | 94.8 | 75 | 125 | 12/24/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 3050B, 6010B, METALS BY ICP

**Batch 115163** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **20**

SampID: 15121500-006AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **57.0** | 50.00 | 9.570 | 94.8 | 58.34 | 2.38 | 12/24/2015 |
| Barium | 0.25 | | **364** | 200.0 | 177.4 | 93.0 | 375.3 | 3.19 | 12/24/2015 |
| Cadmium | 0.20 | | **5.64** | 5.000 | 0.8500 | 95.8 | 5.790 | 2.62 | 12/24/2015 |
| Chromium | 0.50 | | **40.9** | 20.00 | 19.82 | 105.6 | 40.88 | 0.12 | 12/24/2015 |
| Selenium | 4.00 | | **45.4** | 50.00 | 0 | 90.9 | 47.97 | 5.44 | 12/24/2015 |
| Silver | 0.50 | | **4.85** | 5.000 | 0.2700 | 91.6 | 5.010 | 3.25 | 12/24/2015 |

**Batch 115163** **SampType: MS** Units **mg/Kg-dry**

SampID: 15121500-016AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **59.6** | 50.00 | 11.21 | 96.9 | 75 | 125 | 12/24/2015 |
| Barium | 0.25 | | **403** | 200.0 | 198.3 | 102.2 | 75 | 125 | 12/24/2015 |
| Cadmium | 0.20 | | **5.12** | 5.000 | 0.1900 | 98.6 | 75 | 125 | 12/24/2015 |
| Chromium | 0.50 | | **40.2** | 20.00 | 19.24 | 104.8 | 75 | 125 | 12/24/2015 |
| Lead | 1.50 | | **65.5** | 50.00 | 14.03 | 103.0 | 75 | 125 | 12/24/2015 |
| Selenium | 4.00 | | **47.2** | 50.00 | 0 | 94.4 | 75 | 125 | 12/24/2015 |
| Silver | 0.50 | | **4.85** | 5.000 | 0.1600 | 93.8 | 75 | 125 | 12/24/2015 |

**Batch 115163** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **20**

SampID: 15121500-016AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **59.3** | 50.00 | 11.21 | 96.2 | 59.64 | 0.55 | 12/24/2015 |
| Barium | 0.25 | | **409** | 200.0 | 198.3 | 105.6 | 402.7 | 1.65 | 12/24/2015 |
| Cadmium | 0.20 | | **5.13** | 5.000 | 0.1900 | 98.8 | 5.120 | 0.20 | 12/24/2015 |
| Chromium | 0.50 | | **40.6** | 20.00 | 19.24 | 106.8 | 40.21 | 0.97 | 12/24/2015 |
| Lead | 1.50 | | **67.6** | 50.00 | 14.03 | 107.1 | 65.54 | 3.05 | 12/24/2015 |
| Selenium | 4.00 | | **47.3** | 50.00 | 0 | 94.5 | 47.22 | 0.11 | 12/24/2015 |
| Silver | 0.50 | | **4.80** | 5.000 | 0.1600 | 92.8 | 4.850 | 1.04 | 12/24/2015 |

**Batch 115232** **SampType: MBLK** Units **mg/Kg-dry**

SampID: MBLK-115232

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **< 2.50** | 2.500 | 0 | 0 | -100 | 100 | 12/28/2015 |
| Cadmium | 0.20 | | **< 0.20** | 0.2000 | 0 | 0 | -100 | 100 | 12/28/2015 |
| Lead | 1.50 | | **< 1.50** | 1.500 | 0 | 0 | -100 | 100 | 12/28/2015 |
| Selenium | 4.00 | | **< 4.00** | 4.000 | 0 | 0 | -100 | 100 | 12/28/2015 |

**Batch 115232** **SampType: LCS** Units **mg/Kg-dry**

SampID: LCS-115232

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 2.50 | | **48.5** | 50.00 | 0 | 97.0 | 85 | 115 | 12/28/2015 |
| Cadmium | 0.20 | | **4.92** | 5.000 | 0 | 98.4 | 85 | 115 | 12/28/2015 |
| Lead | 1.50 | | **51.8** | 50.00 | 0 | 103.7 | 85 | 115 | 12/28/2015 |
| Selenium | 4.00 | | **48.4** | 50.00 | 0 | 96.8 | 85 | 115 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 3050B, 6010B, METALS BY ICP

**Batch** 115232 **SampType:** MS Units **mg/Kg-dry**

SampID: 15121500-006AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.50 | | **265** | 50.00 | 226.9 | 76.8 | 75 | 125 | 12/28/2015 |

**Batch** 115232 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **20**

SampID: 15121500-006AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.50 | | **266** | 50.00 | 226.9 | 78.6 | 265.3 | 0.34 | 12/28/2015 |

## SW-846 7471B

**Batch** 115165 **SampType:** MBLK Units **mg/Kg**

SampID: MBLK-115165

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **< 0.010** | 0.01000 | 0 | 0 | -100 | 100 | 12/23/2015 |

**Batch** 115165 **SampType:** LCS Units **mg/Kg**

SampID: LCS-115165

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.265** | 0.2500 | 0 | 106.0 | 85 | 115 | 12/23/2015 |

**Batch** 115165 **SampType:** MS Units **mg/Kg-dry**

SampID: 15121421-013AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.366** | 0.3022 | 0.02452 | 113.2 | 75 | 125 | 12/23/2015 |

**Batch** 115165 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **15**

SampID: 15121421-013AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.351** | 0.3022 | 0.02452 | 108.1 | 0.3665 | 4.28 | 12/23/2015 |

**Batch** 115165 **SampType:** MS Units **mg/Kg**

SampID: 15121540-001AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.317** | 0.2500 | 0.03180 | 114.1 | 75 | 125 | 12/23/2015 |

**Batch** 115165 **SampType:** MSD Units **mg/Kg** RPD Limit **15**

SampID: 15121540-001AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.303** | 0.2500 | 0.03180 | 108.3 | 0.3171 | 4.69 | 12/23/2015 |

# Quality Control Results

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**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

## SW-846 7471B

**Batch 115173** **SampType: MBLK** Units **mg/Kg**
SampID: MBLK-115173

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **< 0.010** | 0.01000 | 0 | 0 | -100 | 100 | 12/23/2015 |

**Batch 115173** **SampType: LCS** Units **mg/Kg**
SampID: LCS-115173

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.010 | | **0.249** | 0.2500 | 0 | 99.7 | 85 | 115 | 12/23/2015 |

**Batch 115173** **SampType: MS** Units **mg/Kg-dry**
SampID: 15121500-013AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.378** | 0.2963 | 0.03683 | 115.3 | 75 | 125 | 12/23/2015 |

**Batch 115173** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**
SampID: 15121500-013AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.368** | 0.2963 | 0.03683 | 111.9 | 0.3784 | 2.70 | 12/23/2015 |

**Batch 115173** **SampType: MS** Units **mg/Kg-dry**
SampID: 15121500-021AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.370** | 0.2918 | 0.02600 | 117.8 | 75 | 125 | 12/23/2015 |

**Batch 115173** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **15**
SampID: 15121500-021AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.012 | | **0.374** | 0.2918 | 0.02600 | 119.2 | 0.3697 | 1.10 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115104** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115104

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Anthracene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(a)anthracene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(a)pyrene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(b)fluoranthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Benzo(k)fluoranthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Chrysene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Dibenzo(a,h)anthracene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Fluoranthene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Fluorene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| Pyrene | 0.0340 | | **ND** | | | | | | 12/21/2015 |
| TPH-DRO (C10 - C21) | 12.0 | J | **6.2** | | | | | | 12/21/2015 |
| TPH-ORO (C21 - C35) | 12.0 | | **ND** | | | | | | 12/21/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.716** | 0.8350 | | 85.7 | 42.6 | 97.2 | 12/21/2015 |
| Surr: Nitrobenzene-d5 | | | **0.643** | 0.8350 | | 77.0 | 16.7 | 118 | 12/21/2015 |
| Surr: p-Terphenyl-d14 | | | **0.812** | 0.8350 | | 97.3 | 50.1 | 111 | 12/21/2015 |

**Batch 115104** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115104

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **1.12** | 1.670 | 0 | 67.1 | 56.4 | 104 | 12/21/2015 |
| Anthracene | 0.0340 | | **1.10** | 1.670 | 0 | 66.0 | 55.9 | 101 | 12/21/2015 |
| Benzo(a)anthracene | 0.0340 | | **1.13** | 1.670 | 0 | 67.5 | 51.7 | 107 | 12/21/2015 |
| Benzo(a)pyrene | 0.0340 | | **1.23** | 1.670 | 0 | 73.7 | 57.2 | 114 | 12/21/2015 |
| Benzo(b)fluoranthene | 0.0340 | | **1.22** | 1.670 | 0 | 73.2 | 45.3 | 116 | 12/21/2015 |
| Benzo(k)fluoranthene | 0.0340 | | **1.33** | 1.670 | 0 | 79.7 | 58.2 | 114 | 12/21/2015 |
| Chrysene | 0.0340 | | **1.22** | 1.670 | 0 | 73.3 | 58.9 | 102 | 12/21/2015 |
| Dibenzo(a,h)anthracene | 0.0340 | | **0.964** | 1.670 | 0 | 57.7 | 48.9 | 123 | 12/21/2015 |
| Fluoranthene | 0.0340 | | **1.17** | 1.670 | 0 | 69.9 | 54.9 | 108 | 12/21/2015 |
| Fluorene | 0.0340 | | **1.08** | 1.670 | 0 | 65.0 | 58 | 101 | 12/21/2015 |
| Pyrene | 0.0340 | | **1.19** | 1.670 | 0 | 71.2 | 53.4 | 107 | 12/21/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.524** | 0.8350 | | 62.8 | 42.6 | 97.2 | 12/21/2015 |
| Surr: Nitrobenzene-d5 | | | **0.660** | 0.8350 | | 79.1 | 16.7 | 118 | 12/21/2015 |
| Surr: p-Terphenyl-d14 | | | **0.629** | 0.8350 | | 75.3 | 50.1 | 111 | 12/21/2015 |

**Batch 115104** **SampType: LCSG** Units **mg/Kg**

SampID: LCSDRO-115104

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 12.0 | | **23.5** | 33.40 | 0 | 70.5 | 53.7 | 103 | 12/21/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.619** | 0.8350 | | 74.1 | 42.6 | 97.2 | 12/21/2015 |
| Surr: Nitrobenzene-d5 | | | **0.539** | 0.8350 | | 64.6 | 16.7 | 118 | 12/21/2015 |
| Surr: p-Terphenyl-d14 | | | **0.694** | 0.8350 | | 83.1 | 50.1 | 111 | 12/21/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115104** **SampType: MS** Units **mg/Kg-dry**

SampID: 15121344-010AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 144 | S | **340** | 39.98 | 367.9 | -68.6 | 34.5 | 160 | 12/22/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.682** | 0.9996 | | 68.3 | 12 | 133 | 12/22/2015 |
| Surr: Nitrobenzene-d5 | | | **0.615** | 0.9996 | | 61.5 | 30.9 | 115 | 12/22/2015 |
| Surr: p-Terphenyl-d14 | | | **0.874** | 0.9996 | | 87.4 | 31.5 | 137 | 12/22/2015 |

**Batch 115104** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **30**

SampID: 15121344-010AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 144 | SR | **247** | 40.00 | 367.9 | -303.2 | 340.5 | 31.98 | 12/22/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.647** | 0.9999 | | 64.7 | | | 12/22/2015 |
| Surr: Nitrobenzene-d5 | | | **0.603** | 0.9999 | | 60.3 | | | 12/22/2015 |
| Surr: p-Terphenyl-d14 | | | **0.858** | 0.9999 | | 85.8 | | | 12/22/2015 |

**Batch 115140** **SampType: MBLK** Units **mg/Kg**

SampID: MBLK-115140

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Anthracene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Benzo(a)anthracene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Benzo(a)pyrene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Benzo(b)fluoranthene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Benzo(k)fluoranthene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Chrysene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Dibenzo(a,h)anthracene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Fluoranthene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Fluorene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| Pyrene | 0.0340 | | **ND** | | | | | | 12/22/2015 |
| TPH-DRO (C10 - C21) | 12.0 | J | **6.2** | | | | | | 12/22/2015 |
| TPH-ORO (C21 - C35) | 12.0 | | **ND** | | | | | | 12/22/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.726** | 0.8350 | | 86.9 | 42.6 | 97.2 | 12/22/2015 |
| Surr: Nitrobenzene-d5 | | | **0.658** | 0.8350 | | 78.8 | 16.7 | 118 | 12/22/2015 |
| Surr: p-Terphenyl-d14 | | | **0.803** | 0.8350 | | 96.2 | 50.1 | 111 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115140** **SampType: LCS** Units **mg/Kg**

SampID: LCS-115140

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0340 | | **1.50** | 1.670 | 0 | 89.6 | 56.4 | 104 | 12/22/2015 |
| Anthracene | 0.0340 | | **1.36** | 1.670 | 0 | 81.7 | 55.9 | 101 | 12/22/2015 |
| Benzo(a)anthracene | 0.0340 | | **1.40** | 1.670 | 0 | 83.7 | 51.7 | 107 | 12/22/2015 |
| Benzo(a)pyrene | 0.0340 | | **1.48** | 1.670 | 0 | 88.5 | 57.2 | 114 | 12/22/2015 |
| Benzo(b)fluoranthene | 0.0340 | | **1.55** | 1.670 | 0 | 92.7 | 45.3 | 116 | 12/22/2015 |
| Benzo(k)fluoranthene | 0.0340 | | **1.42** | 1.670 | 0 | 85.2 | 58.2 | 114 | 12/22/2015 |
| Chrysene | 0.0340 | | **1.48** | 1.670 | 0 | 88.4 | 58.9 | 102 | 12/22/2015 |
| Dibenzo(a,h)anthracene | 0.0340 | | **1.54** | 1.670 | 0 | 92.5 | 48.9 | 123 | 12/22/2015 |
| Fluoranthene | 0.0340 | | **1.41** | 1.670 | 0 | 84.5 | 54.9 | 108 | 12/22/2015 |
| Fluorene | 0.0340 | | **1.44** | 1.670 | 0 | 86.4 | 58 | 101 | 12/22/2015 |
| Pyrene | 0.0340 | | **1.46** | 1.670 | 0 | 87.5 | 53.4 | 107 | 12/22/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.719** | 0.8350 | | 86.1 | 42.6 | 97.2 | 12/22/2015 |
| Surr: Nitrobenzene-d5 | | | **0.919** | 0.8350 | | 110.1 | 16.7 | 118 | 12/22/2015 |
| Surr: p-Terphenyl-d14 | | | **0.755** | 0.8350 | | 90.4 | 50.1 | 111 | 12/22/2015 |

**Batch 115140** **SampType: LCSG** Units **mg/Kg**

SampID: LCSDRO-115140

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 12.0 | | **24.6** | 33.40 | 0 | 73.7 | 53.7 | 103 | 12/22/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.657** | 0.8350 | | 78.7 | 42.6 | 97.2 | 12/22/2015 |
| Surr: Nitrobenzene-d5 | | | **0.623** | 0.8350 | | 74.6 | 16.7 | 118 | 12/22/2015 |
| Surr: p-Terphenyl-d14 | | | **0.719** | 0.8350 | | 86.1 | 50.1 | 111 | 12/22/2015 |

**Batch 115140** **SampType: MS** Units **mg/Kg-dry**

SampID: 15121500-024AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 758 | S | **ND** | 42.18 | 0 | 0 | 34.5 | 160 | 12/25/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.631** | 1.054 | | 59.9 | 12 | 133 | 12/25/2015 |
| Surr: Nitrobenzene-d5 | | | **0.589** | 1.054 | | 55.9 | 30.9 | 115 | 12/25/2015 |
| Surr: p-Terphenyl-d14 | | | **0.842** | 1.054 | | 79.8 | 31.5 | 137 | 12/25/2015 |

**Batch 115140** **SampType: MSD** Units **mg/Kg-dry** RPD Limit **30**

SampID: 15121500-024AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH-DRO (C10 - C21) | 757 | S | **ND** | 42.15 | 0 | 0 | 0 | 0.00 | 12/25/2015 |
| Surr: 2-Fluorobiphenyl | | | **0.547** | 1.054 | | 51.9 | | | 12/25/2015 |
| Surr: Nitrobenzene-d5 | | | **0.568** | 1.054 | | 53.9 | | | 12/25/2015 |
| Surr: p-Terphenyl-d14 | | | **0.778** | 1.054 | | 73.9 | | | 12/25/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115254** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-R151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,3-Trichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Butanone | 25.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Chloroethyl vinyl ether | 20.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Hexanone | 25.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/28/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 4-Methyl-2-pentanone | 25.0 | | **ND** | | | | | | 12/28/2015 |
| Acetone | 25.0 | | **ND** | | | | | | 12/28/2015 |
| Acetonitrile | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/28/2015 |
| Acrylonitrile | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Benzene | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115254** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-R151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Chloromethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Chloroprene | 20.0 | | **ND** | | | | | | 12/28/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| cis-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Cyclohexanone | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Diisopropyl ether | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl acetate | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl-tert-butyl ether | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Hexachloroethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Iodomethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Methacrylonitrile | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/28/2015 |
| n-Butyl acetate | 25.0 | | **ND** | | | | | | 12/28/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| Nitrobenzene | 50.0 | | **ND** | | | | | | 12/28/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Pentachloroethane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/28/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| tert-Amyl methyl ether | 2.0 | | **ND** | | | | | | 12/28/2015 |
| tert-Butyl alcohol | 25.0 | | **ND** | | | | | | 12/28/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Tetrahydrofuran | 20.0 | | **ND** | | | | | | 12/28/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| trans-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115254** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-R151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Vinyl acetate | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **51.5** | 50.00 | | 103.0 | 74.7 | 129 | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.5** | 50.00 | | 99.1 | 86 | 119 | 12/28/2015 |
| Surr: Toluene-d8 | | | **50.3** | 50.00 | | 100.5 | 84.3 | 114 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115254** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-R151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **52.6** | 50.00 | 0 | 105.3 | 50.06 | 5.01 | 12/28/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 47.79 | 11.29 | 12/28/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 51.09 | 0.22 | 12/28/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **53.2** | 50.00 | 0 | 106.4 | 47.18 | 11.96 | 12/28/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 50.17 | 1.13 | 12/28/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **128** | 125.0 | 0 | 102.4 | 135.2 | 5.50 | 12/28/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.2** | 50.00 | 0 | 106.4 | 49.10 | 7.98 | 12/28/2015 |
| 1,1-Dichloroethene | 5.0 | | **57.2** | 50.00 | 0 | 114.3 | 49.85 | 13.64 | 12/28/2015 |
| 1,1-Dichloropropene | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 47.89 | 13.31 | 12/28/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **55.0** | 50.00 | 0 | 109.9 | 51.33 | 6.83 | 12/28/2015 |
| 1,2,3-Trichloropropane | 5.0 | | **48.3** | 50.00 | 0 | 96.5 | 47.58 | 1.44 | 12/28/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 47.75 | 8.14 | 12/28/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 49.40 | 9.45 | 12/28/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **54.8** | 50.00 | 0 | 109.5 | 50.23 | 8.61 | 12/28/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.9** | 50.00 | 0 | 95.7 | 48.48 | 1.29 | 12/28/2015 |
| 1,2-Dibromoethane | 5.0 | | **50.9** | 50.00 | 0 | 101.9 | 50.49 | 0.87 | 12/28/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 47.58 | 7.39 | 12/28/2015 |
| 1,2-Dichloroethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 50.56 | 1.08 | 12/28/2015 |
| 1,2-Dichloropropane | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 49.66 | 4.76 | 12/28/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **55.5** | 50.00 | 0 | 110.9 | 50.17 | 10.03 | 12/28/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 48.58 | 7.64 | 12/28/2015 |
| 1,3-Dichloropropane | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 50.04 | 1.59 | 12/28/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 46.44 | 8.40 | 12/28/2015 |
| 1-Chlorobutane | 5.0 | | **53.1** | 50.00 | 0 | 106.1 | 46.79 | 12.58 | 12/28/2015 |
| 2,2-Dichloropropane | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 48.14 | 14.20 | 12/28/2015 |
| 2-Butanone | 25.0 | | **119** | 125.0 | 0 | 95.4 | 119.6 | 0.38 | 12/28/2015 |
| 2-Chloroethyl vinyl ether | 20.0 | | **45.1** | 50.00 | 0 | 90.2 | 46.44 | 2.91 | 12/28/2015 |
| 2-Chlorotoluene | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 49.34 | 8.67 | 12/28/2015 |
| 2-Hexanone | 25.0 | | **132** | 125.0 | 0 | 105.8 | 132.8 | 0.41 | 12/28/2015 |
| 2-Nitropropane | 50.0 | | **574** | 500.0 | 0 | 114.7 | 584.3 | 1.85 | 12/28/2015 |
| 4-Chlorotoluene | 5.0 | | **52.7** | 50.00 | 0 | 105.3 | 48.47 | 8.29 | 12/28/2015 |
| 4-Methyl-2-pentanone | 25.0 | | **128** | 125.0 | 0 | 102.0 | 129.0 | 1.15 | 12/28/2015 |
| Acetone | 25.0 | | **126** | 125.0 | 0 | 101.0 | 124.4 | 1.45 | 12/28/2015 |
| Acetonitrile | 50.0 | | **521** | 500.0 | 0 | 104.3 | 529.5 | 1.53 | 12/28/2015 |
| Acrolein | 100 | | **524** | 500.0 | 0 | 104.9 | 530.4 | 1.16 | 12/28/2015 |
| Acrylonitrile | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 53.28 | 1.47 | 12/28/2015 |
| Allyl chloride | 5.0 | S | **62.0** | 50.00 | 0 | 124.1 | 56.34 | 9.65 | 12/28/2015 |
| Benzene | 2.0 | | **52.1** | 50.00 | 0 | 104.2 | 47.75 | 8.75 | 12/28/2015 |
| Bromobenzene | 5.0 | | **56.6** | 50.00 | 0 | 113.2 | 46.76 | 19.06 | 12/28/2015 |
| Bromochloromethane | 5.0 | | **49.7** | 50.00 | 0 | 99.5 | 49.58 | 0.32 | 12/28/2015 |
| Bromodichloromethane | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 48.34 | 3.18 | 12/28/2015 |
| Bromoform | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 51.01 | 0.47 | 12/28/2015 |
| Bromomethane | 10.0 | | **44.3** | 50.00 | 0 | 88.6 | 39.56 | 11.28 | 12/28/2015 |
| Carbon disulfide | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 47.42 | 15.88 | 12/28/2015 |
| Carbon tetrachloride | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 48.11 | 12.82 | 12/28/2015 |
| Chlorobenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 47.96 | 7.22 | 12/28/2015 |
| Chloroethane | 10.0 | | **51.8** | 50.00 | 0 | 103.6 | 47.05 | 9.61 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115254** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-R151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **50.8** | 50.00 | 0 | 101.6 | 47.58 | 6.51 | 12/28/2015 |
| Chloromethane | 10.0 | | **48.5** | 50.00 | 0 | 97.0 | 44.55 | 8.47 | 12/28/2015 |
| Chloroprene | 20.0 | | **52.3** | 50.00 | 0 | 104.6 | 46.95 | 10.82 | 12/28/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 49.00 | 8.29 | 12/28/2015 |
| cis-1,3-Dichloropropene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 51.80 | 4.20 | 12/28/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **55.7** | 50.00 | 0 | 111.4 | 54.07 | 2.95 | 12/28/2015 |
| Cyclohexanone | 50.0 | | **455** | 500.0 | 0 | 91.0 | 419.6 | 8.12 | 12/28/2015 |
| Dibromochloromethane | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 50.83 | 1.58 | 12/28/2015 |
| Dibromomethane | 5.0 | | **49.1** | 50.00 | 0 | 98.3 | 48.14 | 2.06 | 12/28/2015 |
| Dichlorodifluoromethane | 10.0 | | **65.1** | 50.00 | 0 | 130.2 | 56.56 | 14.01 | 12/28/2015 |
| Diisopropyl ether | 2.0 | | **51.3** | 50.00 | 0 | 102.7 | 50.87 | 0.90 | 12/28/2015 |
| Ethyl acetate | 10.0 | | **52.3** | 50.00 | 0 | 104.7 | 52.72 | 0.74 | 12/28/2015 |
| Ethyl ether | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 48.48 | 1.25 | 12/28/2015 |
| Ethyl methacrylate | 5.0 | | **54.5** | 50.00 | 0 | 109.0 | 55.03 | 0.95 | 12/28/2015 |
| Ethylbenzene | 5.0 | | **55.4** | 50.00 | 0 | 110.8 | 49.96 | 10.34 | 12/28/2015 |
| Ethyl-tert-butyl ether | 2.0 | | **50.4** | 50.00 | 0 | 100.7 | 49.87 | 0.96 | 12/28/2015 |
| Hexachlorobutadiene | 5.0 | | **58.5** | 50.00 | 0 | 117.0 | 49.25 | 17.14 | 12/28/2015 |
| Hexachloroethane | 10.0 | | **56.9** | 50.00 | 0 | 113.7 | 50.36 | 12.12 | 12/28/2015 |
| Iodomethane | 5.0 | | **34.1** | 50.00 | 0 | 68.3 | 28.08 | 19.48 | 12/28/2015 |
| Isopropylbenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 49.78 | 11.37 | 12/28/2015 |
| m,p-Xylenes | 5.0 | | **111** | 100.0 | 0 | 111.0 | 100.8 | 9.64 | 12/28/2015 |
| Methacrylonitrile | 10.0 | | **50.7** | 50.00 | 0 | 101.4 | 51.06 | 0.67 | 12/28/2015 |
| Methyl Methacrylate | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 55.13 | 1.31 | 12/28/2015 |
| Methyl tert-butyl ether | 2.0 | | **51.0** | 50.00 | 0 | 102.0 | 51.18 | 0.31 | 12/28/2015 |
| Methylacrylate | 10.0 | | **55.4** | 50.00 | 0 | 110.9 | 55.40 | 0.07 | 12/28/2015 |
| Methylene chloride | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 48.40 | 3.01 | 12/28/2015 |
| Naphthalene | 10.0 | | **56.4** | 50.00 | 0 | 112.9 | 54.14 | 4.18 | 12/28/2015 |
| n-Butyl acetate | 25.0 | | **54.8** | 50.00 | 0 | 109.5 | 55.05 | 0.53 | 12/28/2015 |
| n-Butylbenzene | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 48.89 | 12.63 | 12/28/2015 |
| n-Heptane | 20.0 | | **57.5** | 50.00 | 0 | 115.1 | 48.81 | 16.42 | 12/28/2015 |
| n-Hexane | 20.0 | | **57.8** | 50.00 | 0 | 115.5 | 49.40 | 15.59 | 12/28/2015 |
| Nitrobenzene | 50.0 | | **472** | 500.0 | 0 | 94.4 | 438.8 | 7.29 | 12/28/2015 |
| n-Propylbenzene | 5.0 | | **55.4** | 50.00 | 0 | 110.9 | 49.76 | 10.78 | 12/28/2015 |
| o-Xylene | 5.0 | | **54.5** | 50.00 | 0 | 109.1 | 49.77 | 9.13 | 12/28/2015 |
| Pentachloroethane | 20.0 | | **56.2** | 50.00 | 0 | 112.5 | 53.35 | 5.29 | 12/28/2015 |
| p-Isopropyltoluene | 5.0 | | **56.8** | 50.00 | 0 | 113.5 | 50.22 | 12.23 | 12/28/2015 |
| Propionitrile | 50.0 | | **517** | 500.0 | 0 | 103.3 | 513.4 | 0.60 | 12/28/2015 |
| sec-Butylbenzene | 5.0 | | **55.5** | 50.00 | 0 | 111.1 | 49.29 | 11.92 | 12/28/2015 |
| Styrene | 5.0 | | **55.4** | 50.00 | 0 | 110.7 | 51.00 | 8.18 | 12/28/2015 |
| tert-Amyl methyl ether | 2.0 | | **48.9** | 50.00 | 0 | 97.8 | 48.93 | 0.10 | 12/28/2015 |
| tert-Butyl alcohol | 25.0 | | **237** | 250.0 | 0 | 94.7 | 227.7 | 3.95 | 12/28/2015 |
| tert-Butylbenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.5 | 48.09 | 11.08 | 12/28/2015 |
| Tetrachloroethene | 5.0 | | **53.8** | 50.00 | 0 | 107.7 | 48.41 | 10.60 | 12/28/2015 |
| Tetrahydrofuran | 20.0 | | **47.7** | 50.00 | 0 | 95.5 | 48.75 | 2.09 | 12/28/2015 |
| Toluene | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 49.31 | 7.68 | 12/28/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 50.31 | 10.01 | 12/28/2015 |
| trans-1,3-Dichloropropene | 5.0 | | **54.4** | 50.00 | 0 | 108.9 | 52.66 | 3.31 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115254** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-R151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **53.6** | 50.00 | 0 | 107.3 | 51.93 | 3.22 | 12/28/2015 |
| Trichloroethene | 5.0 | | **51.3** | 50.00 | 0 | 102.6 | 46.25 | 10.35 | 12/28/2015 |
| Trichlorofluoromethane | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 43.22 | 12.49 | 12/28/2015 |
| Vinyl acetate | 10.0 | | **55.1** | 50.00 | 0 | 110.1 | 52.27 | 5.20 | 12/28/2015 |
| Vinyl chloride | 2.0 | | **52.1** | 50.00 | 0 | 104.2 | 44.38 | 16.00 | 12/28/2015 |
| Xylenes, Total | 5.0 | | **166** | 150.0 | 0 | 110.3 | 150.5 | 9.47 | 12/28/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **109** | 100.0 | 0 | 108.8 | 99.31 | 9.17 | 12/28/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **108** | 100.0 | 0 | 108.4 | 104.5 | 3.75 | 12/28/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **109** | 100.0 | 0 | 109.3 | 106.0 | 3.08 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.3** | 50.00 | | 100.6 | | | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.2** | 50.00 | | 98.4 | | | 12/28/2015 |
| Surr: Toluene-d8 | | | **49.9** | 50.00 | | 99.8 | | | 12/28/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121500

**Client Project:** NGA 2015-0461.21

**Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115254** **SampType:** **LCS** Units **µg/L**

SampID: LCS-R151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.1** | 50.00 | 0 | 100.1 | 81.9 | 115 | 12/28/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 79.4 | 124 | 12/28/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **51.1** | 50.00 | 0 | 102.2 | 74.7 | 116 | 12/28/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **47.2** | 50.00 | 0 | 94.4 | 72.9 | 121 | 12/28/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 80.8 | 111 | 12/28/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **135** | 125.0 | 0 | 108.2 | 66.3 | 130 | 12/28/2015 |
| 1,1-Dichloroethane | 5.0 | | **49.1** | 50.00 | 0 | 98.2 | 79.4 | 114 | 12/28/2015 |
| 1,1-Dichloroethene | 5.0 | | **49.8** | 50.00 | 0 | 99.7 | 74.1 | 117 | 12/28/2015 |
| 1,1-Dichloropropene | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 81.7 | 116 | 12/28/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **51.3** | 50.00 | 0 | 102.7 | 79.7 | 118 | 12/28/2015 |
| 1,2,3-Trichloropropane | 5.0 | | **47.6** | 50.00 | 0 | 95.2 | 77.3 | 112 | 12/28/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **47.8** | 50.00 | 0 | 95.5 | 79.9 | 119 | 12/28/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 79.3 | 118 | 12/28/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 78.7 | 115 | 12/28/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 76 | 122 | 12/28/2015 |
| 1,2-Dibromoethane | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 80.8 | 114 | 12/28/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **47.6** | 50.00 | 0 | 95.2 | 78.3 | 112 | 12/28/2015 |
| 1,2-Dichloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 70.6 | 118 | 12/28/2015 |
| 1,2-Dichloropropane | 5.0 | | **49.7** | 50.00 | 0 | 99.3 | 79.6 | 113 | 12/28/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 77.5 | 115 | 12/28/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **48.6** | 50.00 | 0 | 97.2 | 78.6 | 117 | 12/28/2015 |
| 1,3-Dichloropropane | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 78.8 | 112 | 12/28/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **46.4** | 50.00 | 0 | 92.9 | 77.8 | 114 | 12/28/2015 |
| 1-Chlorobutane | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 78.6 | 115 | 12/28/2015 |
| 2,2-Dichloropropane | 5.0 | | **48.1** | 50.00 | 0 | 96.3 | 74.9 | 130 | 12/28/2015 |
| 2-Butanone | 25.0 | | **120** | 125.0 | 0 | 95.7 | 70.7 | 136 | 12/28/2015 |
| 2-Chloroethyl vinyl ether | 20.0 | | **46.4** | 50.00 | 0 | 92.9 | 52.5 | 145 | 12/28/2015 |
| 2-Chlorotoluene | 5.0 | | **49.3** | 50.00 | 0 | 98.7 | 77.4 | 114 | 12/28/2015 |
| 2-Hexanone | 25.0 | | **133** | 125.0 | 0 | 106.3 | 73.3 | 125 | 12/28/2015 |
| 2-Nitropropane | 50.0 | | **584** | 500.0 | 0 | 116.9 | 67.3 | 139 | 12/28/2015 |
| 4-Chlorotoluene | 5.0 | | **48.5** | 50.00 | 0 | 96.9 | 78.3 | 115 | 12/28/2015 |
| 4-Methyl-2-pentanone | 25.0 | | **129** | 125.0 | 0 | 103.2 | 76.3 | 122 | 12/28/2015 |
| Acetone | 25.0 | | **124** | 125.0 | 0 | 99.5 | 56.4 | 147 | 12/28/2015 |
| Acetonitrile | 50.0 | | **529** | 500.0 | 0 | 105.9 | 59.3 | 129 | 12/28/2015 |
| Acrolein | 100 | | **530** | 500.0 | 0 | 106.1 | 1 | 201 | 12/28/2015 |
| Acrylonitrile | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 74.1 | 128 | 12/28/2015 |
| Allyl chloride | 5.0 | | **56.3** | 50.00 | 0 | 112.7 | 71.5 | 123 | 12/28/2015 |
| Benzene | 2.0 | | **47.8** | 50.00 | 0 | 95.5 | 80 | 114 | 12/28/2015 |
| Bromobenzene | 5.0 | | **46.8** | 50.00 | 0 | 93.5 | 73.2 | 118 | 12/28/2015 |
| Bromochloromethane | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 73.3 | 121 | 12/28/2015 |
| Bromodichloromethane | 5.0 | | **48.3** | 50.00 | 0 | 96.7 | 81.6 | 121 | 12/28/2015 |
| Bromoform | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 83.1 | 127 | 12/28/2015 |
| Bromomethane | 10.0 | | **39.6** | 50.00 | 0 | 79.1 | 44.4 | 154 | 12/28/2015 |
| Carbon disulfide | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 73.2 | 118 | 12/28/2015 |
| Carbon tetrachloride | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 79.4 | 130 | 12/28/2015 |
| Chlorobenzene | 5.0 | | **48.0** | 50.00 | 0 | 95.9 | 81.4 | 110 | 12/28/2015 |
| Chloroethane | 10.0 | | **47.0** | 50.00 | 0 | 94.1 | 52.1 | 137 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115254** **SampType:** **LCS** Units **µg/L**

SampID: LCS-R151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **47.6** | 50.00 | 0 | 95.2 | 82.7 | 116 | 12/28/2015 |
| Chloromethane | 10.0 | | **44.6** | 50.00 | 0 | 89.1 | 48.2 | 144 | 12/28/2015 |
| Chloroprene | 20.0 | | **47.0** | 50.00 | 0 | 93.9 | 80.6 | 126 | 12/28/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 78.2 | 116 | 12/28/2015 |
| cis-1,3-Dichloropropene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 83 | 119 | 12/28/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **54.1** | 50.00 | 0 | 108.1 | 60.7 | 137 | 12/28/2015 |
| Cyclohexanone | 50.0 | | **420** | 500.0 | 0 | 83.9 | 54.2 | 145 | 12/28/2015 |
| Dibromochloromethane | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 81.2 | 121 | 12/28/2015 |
| Dibromomethane | 5.0 | | **48.1** | 50.00 | 0 | 96.3 | 78.3 | 118 | 12/28/2015 |
| Dichlorodifluoromethane | 10.0 | | **56.6** | 50.00 | 0 | 113.1 | 20.6 | 154 | 12/28/2015 |
| Diisopropyl ether | 2.0 | | **50.9** | 50.00 | 0 | 101.7 | 73.1 | 116 | 12/28/2015 |
| Ethyl acetate | 10.0 | | **52.7** | 50.00 | 0 | 105.4 | 73.1 | 116 | 12/28/2015 |
| Ethyl ether | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 75.2 | 109 | 12/28/2015 |
| Ethyl methacrylate | 5.0 | | **55.0** | 50.00 | 0 | 110.1 | 80.1 | 113 | 12/28/2015 |
| Ethylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 77.2 | 113 | 12/28/2015 |
| Ethyl-tert-butyl ether | 2.0 | | **49.9** | 50.00 | 0 | 99.7 | 75 | 118 | 12/28/2015 |
| Hexachlorobutadiene | 5.0 | | **49.2** | 50.00 | 0 | 98.5 | 77.3 | 123 | 12/28/2015 |
| Hexachloroethane | 10.0 | | **50.4** | 50.00 | 0 | 100.7 | 74.6 | 117 | 12/28/2015 |
| Iodomethane | 5.0 | S | **28.1** | 50.00 | 0 | 56.2 | 61.3 | 140 | 12/28/2015 |
| Isopropylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 81.3 | 114 | 12/28/2015 |
| m,p-Xylenes | 5.0 | | **101** | 100.0 | 0 | 100.8 | 79.6 | 113 | 12/28/2015 |
| Methacrylonitrile | 10.0 | | **51.1** | 50.00 | 0 | 102.1 | 77.2 | 125 | 12/28/2015 |
| Methyl Methacrylate | 5.0 | | **55.1** | 50.00 | 0 | 110.3 | 74.2 | 121 | 12/28/2015 |
| Methyl tert-butyl ether | 2.0 | | **51.2** | 50.00 | 0 | 102.4 | 76.8 | 117 | 12/28/2015 |
| Methylacrylate | 10.0 | | **55.4** | 50.00 | 0 | 110.8 | 78 | 124 | 12/28/2015 |
| Methylene chloride | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 74.1 | 114 | 12/28/2015 |
| Naphthalene | 10.0 | | **54.1** | 50.00 | 0 | 108.3 | 77.9 | 122 | 12/28/2015 |
| n-Butyl acetate | 25.0 | | **55.0** | 50.00 | 0 | 110.1 | 74 | 120 | 12/28/2015 |
| n-Butylbenzene | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 71.1 | 120 | 12/28/2015 |
| n-Heptane | 20.0 | | **48.8** | 50.00 | 0 | 97.6 | 67.4 | 129 | 12/28/2015 |
| n-Hexane | 20.0 | | **49.4** | 50.00 | 0 | 98.8 | 68.4 | 126 | 12/28/2015 |
| Nitrobenzene | 50.0 | | **439** | 500.0 | 0 | 87.8 | 37.9 | 181 | 12/28/2015 |
| n-Propylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 74.6 | 118 | 12/28/2015 |
| o-Xylene | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 80.1 | 111 | 12/28/2015 |
| Pentachloroethane | 20.0 | | **53.4** | 50.00 | 0 | 106.7 | 78.8 | 117 | 12/28/2015 |
| p-Isopropyltoluene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 77.6 | 118 | 12/28/2015 |
| Propionitrile | 50.0 | | **513** | 500.0 | 0 | 102.7 | 72.9 | 137 | 12/28/2015 |
| sec-Butylbenzene | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 74.5 | 119 | 12/28/2015 |
| Styrene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 83.4 | 113 | 12/28/2015 |
| tert-Amyl methyl ether | 2.0 | | **48.9** | 50.00 | 0 | 97.9 | 78.7 | 117 | 12/28/2015 |
| tert-Butyl alcohol | 25.0 | | **228** | 250.0 | 0 | 91.1 | 58.1 | 139 | 12/28/2015 |
| tert-Butylbenzene | 5.0 | | **48.1** | 50.00 | 0 | 96.2 | 75.9 | 114 | 12/28/2015 |
| Tetrachloroethene | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 72.5 | 125 | 12/28/2015 |
| Tetrahydrofuran | 20.0 | | **48.8** | 50.00 | 0 | 97.5 | 69.6 | 125 | 12/28/2015 |
| Toluene | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 77.5 | 113 | 12/28/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 79 | 114 | 12/28/2015 |
| trans-1,3-Dichloropropene | 5.0 | | **52.7** | 50.00 | 0 | 105.3 | 78 | 115 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** 115254 **SampType:** LCS Units **µg/L**

SampID: LCS-R151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **51.9** | 50.00 | 0 | 103.9 | 63.3 | 128 | 12/28/2015 |
| Trichloroethene | 5.0 | | **46.2** | 50.00 | 0 | 92.5 | 84.4 | 114 | 12/28/2015 |
| Trichlorofluoromethane | 5.0 | | **43.2** | 50.00 | 0 | 86.4 | 75.2 | 132 | 12/28/2015 |
| Vinyl acetate | 10.0 | | **52.3** | 50.00 | 0 | 104.5 | 64.5 | 127 | 12/28/2015 |
| Vinyl chloride | 2.0 | | **44.4** | 50.00 | 0 | 88.8 | 58 | 134 | 12/28/2015 |
| Xylenes, Total | 5.0 | | **151** | 150.0 | 0 | 100.4 | 80.1 | 111 | 12/28/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **99.3** | 100.0 | 0 | 99.3 | 78.2 | 116 | 12/28/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **104** | 100.0 | 0 | 104.5 | 78 | 119 | 12/28/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **106** | 100.0 | 0 | 106.0 | 60.7 | 137 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.2** | 50.00 | | 100.5 | 74.7 | 129 | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.7** | 50.00 | | 99.3 | 86 | 119 | 12/28/2015 |
| Surr: Toluene-d8 | | | **50.6** | 50.00 | | 101.1 | 84.1 | 114 | 12/28/2015 |

**Batch** 115254 **SampType:** MS Units **µg/L**

SampID: 15121690-001AMS

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 20.0 | | **563** | 500.0 | 70.80 | 98.4 | 62.5 | 121 | 12/28/2015 |
| Ethylbenzene | 50.0 | | **562** | 500.0 | 22.70 | 107.8 | 74.4 | 130 | 12/28/2015 |
| m,p-Xylenes | 50.0 | | **649** | 500.0 | 109.6 | 107.8 | 70.5 | 126 | 12/28/2015 |
| o-Xylene | 50.0 | | **555** | 500.0 | 45.10 | 102.0 | 71.2 | 124 | 12/28/2015 |
| Toluene | 50.0 | | **631** | 500.0 | 134.3 | 99.4 | 69.5 | 118 | 12/28/2015 |
| Xylenes, Total | 50.0 | | **1200** | 1000 | 154.7 | 104.9 | 71.1 | 125 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **508** | 500.0 | | 101.5 | 74.7 | 129 | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **494** | 500.0 | | 98.8 | 86 | 119 | 12/28/2015 |
| Surr: Toluene-d8 | | | **502** | 500.0 | | 100.3 | 84.3 | 114 | 12/28/2015 |

**Batch** 115254 **SampType:** MSD Units **µg/L** RPD Limit **20**

SampID: 15121690-001AMSD

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 20.0 | | **556** | 500.0 | 70.80 | 97.0 | 562.7 | 1.25 | 12/28/2015 |
| Ethylbenzene | 50.0 | | **543** | 500.0 | 22.70 | 104.0 | 561.6 | 3.39 | 12/28/2015 |
| m,p-Xylenes | 50.0 | | **628** | 500.0 | 109.6 | 103.8 | 648.6 | 3.16 | 12/28/2015 |
| o-Xylene | 50.0 | | **542** | 500.0 | 45.10 | 99.4 | 555.0 | 2.39 | 12/28/2015 |
| Toluene | 50.0 | | **621** | 500.0 | 134.3 | 97.4 | 631.4 | 1.61 | 12/28/2015 |
| Xylenes, Total | 50.0 | | **1170** | 1000 | 154.7 | 101.6 | 1204 | 2.81 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **515** | 500.0 | | 102.9 | | | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **488** | 500.0 | | 97.6 | | | 12/28/2015 |
| Surr: Toluene-d8 | | | **499** | 500.0 | | 99.9 | | | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115260** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,3-Trichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Butanone | 25.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Chloroethyl vinyl ether | 20.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Hexanone | 25.0 | | **ND** | | | | | | 12/28/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/28/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 4-Methyl-2-pentanone | 25.0 | | **ND** | | | | | | 12/28/2015 |
| Acetone | 25.0 | | **ND** | | | | | | 12/28/2015 |
| Acetonitrile | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/28/2015 |
| Acrylonitrile | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Benzene | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115260** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Chloromethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Chloroprene | 20.0 | | **ND** | | | | | | 12/28/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| cis-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Cyclohexanone | 50.0 | | **ND** | | | | | | 12/28/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Diisopropyl ether | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl acetate | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Ethyl-tert-butyl ether | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Hexachloroethane | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Iodomethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Methacrylonitrile | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/28/2015 |
| n-Butyl acetate | 25.0 | | **ND** | | | | | | 12/28/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| Nitrobenzene | 50.0 | | **ND** | | | | | | 12/28/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Pentachloroethane | 20.0 | | **ND** | | | | | | 12/28/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/28/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| tert-Amyl methyl ether | 2.0 | | **ND** | | | | | | 12/28/2015 |
| tert-Butyl alcohol | 25.0 | | **ND** | | | | | | 12/28/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Tetrahydrofuran | 20.0 | | **ND** | | | | | | 12/28/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| trans-1,3-Dichloropropene | 5.0 | | **ND** | | | | | | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115260** **SampType:** **MBLK** Units **µg/L**

SampID: MBLK-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/28/2015 |
| Vinyl acetate | 10.0 | | **ND** | | | | | | 12/28/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/28/2015 |
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **ND** | | | | | | 12/28/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **40.0** | 50.00 | | 79.9 | 74.7 | 129 | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **44.9** | 50.00 | | 89.9 | 86 | 119 | 12/28/2015 |
| Surr: Toluene-d8 | | | **47.8** | 50.00 | | 95.7 | 84.3 | 114 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115260** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 53.64 | 0.26 | 12/28/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 46.63 | 1.05 | 12/28/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **43.6** | 50.00 | 0 | 87.2 | 43.59 | 0.02 | 12/28/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **53.8** | 50.00 | 0 | 107.6 | 54.58 | 1.48 | 12/28/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **46.8** | 50.00 | 0 | 93.7 | 47.16 | 0.68 | 12/28/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **101** | 125.0 | 0 | 81.1 | 102.3 | 0.94 | 12/28/2015 |
| 1,1-Dichloroethane | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 47.78 | 2.12 | 12/28/2015 |
| 1,1-Dichloroethene | 5.0 | | **47.2** | 50.00 | 0 | 94.4 | 47.90 | 1.47 | 12/28/2015 |
| 1,1-Dichloropropene | 5.0 | | **48.6** | 50.00 | 0 | 97.2 | 47.46 | 2.37 | 12/28/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **58.5** | 50.00 | 0 | 117.1 | 55.80 | 4.78 | 12/28/2015 |
| 1,2,3-Trichloropropane | 5.0 | | **46.5** | 50.00 | 0 | 93.0 | 46.59 | 0.17 | 12/28/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **46.5** | 50.00 | 0 | 92.9 | 46.29 | 0.39 | 12/28/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **56.8** | 50.00 | 0 | 113.7 | 55.60 | 2.19 | 12/28/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 50.04 | 2.06 | 12/28/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **43.1** | 50.00 | 0 | 86.2 | 43.42 | 0.76 | 12/28/2015 |
| 1,2-Dibromoethane | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 49.98 | 2.43 | 12/28/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **53.6** | 50.00 | 0 | 107.1 | 52.37 | 2.27 | 12/28/2015 |
| 1,2-Dichloroethane | 5.0 | | **40.9** | 50.00 | 0 | 81.8 | 41.06 | 0.44 | 12/28/2015 |
| 1,2-Dichloropropane | 5.0 | | **46.0** | 50.00 | 0 | 92.0 | 46.21 | 0.46 | 12/28/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 50.80 | 0.85 | 12/28/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.5 | 52.40 | 0.32 | 12/28/2015 |
| 1,3-Dichloropropane | 5.0 | | **45.1** | 50.00 | 0 | 90.2 | 44.12 | 2.22 | 12/28/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 50.91 | 0.55 | 12/28/2015 |
| 1-Chlorobutane | 5.0 | | **44.3** | 50.00 | 0 | 88.5 | 43.22 | 2.40 | 12/28/2015 |
| 2,2-Dichloropropane | 5.0 | | **46.0** | 50.00 | 0 | 92.0 | 46.72 | 1.55 | 12/28/2015 |
| 2-Butanone | 25.0 | | **104** | 125.0 | 0 | 82.9 | 106.5 | 2.78 | 12/28/2015 |
| 2-Chloroethyl vinyl ether | 20.0 | | **44.6** | 50.00 | 0 | 89.1 | 44.62 | 0.16 | 12/28/2015 |
| 2-Chlorotoluene | 5.0 | | **46.2** | 50.00 | 0 | 92.5 | 45.87 | 0.78 | 12/28/2015 |
| 2-Hexanone | 25.0 | | **96.0** | 125.0 | 0 | 76.8 | 97.23 | 1.31 | 12/28/2015 |
| 2-Nitropropane | 50.0 | | **423** | 500.0 | 0 | 84.7 | 422.3 | 0.25 | 12/28/2015 |
| 4-Chlorotoluene | 5.0 | | **45.5** | 50.00 | 0 | 91.1 | 45.97 | 0.94 | 12/28/2015 |
| 4-Methyl-2-pentanone | 25.0 | | **107** | 125.0 | 0 | 85.9 | 107.0 | 0.36 | 12/28/2015 |
| Acetone | 25.0 | | **101** | 125.0 | 0 | 80.5 | 105.5 | 4.77 | 12/28/2015 |
| Acetonitrile | 50.0 | | **496** | 500.0 | 0 | 99.2 | 496.7 | 0.14 | 12/28/2015 |
| Acrolein | 100 | | **385** | 500.0 | 0 | 76.9 | 391.3 | 1.70 | 12/28/2015 |
| Acrylonitrile | 5.0 | | **45.0** | 50.00 | 0 | 89.9 | 44.61 | 0.80 | 12/28/2015 |
| Allyl chloride | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 48.36 | 2.03 | 12/28/2015 |
| Benzene | 2.0 | | **49.1** | 50.00 | 0 | 98.2 | 49.71 | 1.19 | 12/28/2015 |
| Bromobenzene | 5.0 | | **43.2** | 50.00 | 0 | 86.3 | 43.12 | 0.12 | 12/28/2015 |
| Bromochloromethane | 5.0 | | **41.4** | 50.00 | 0 | 82.8 | 41.58 | 0.46 | 12/28/2015 |
| Bromodichloromethane | 5.0 | | **47.0** | 50.00 | 0 | 93.9 | 47.83 | 1.86 | 12/28/2015 |
| Bromoform | 5.0 | | **56.3** | 50.00 | 0 | 112.5 | 55.92 | 0.62 | 12/28/2015 |
| Bromomethane | 10.0 | | **27.5** | 50.00 | 0 | 55.1 | 28.48 | 3.39 | 12/28/2015 |
| Carbon disulfide | 5.0 | | **56.4** | 50.00 | 0 | 112.9 | 56.09 | 0.64 | 12/28/2015 |
| Carbon tetrachloride | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 50.68 | 2.09 | 12/28/2015 |
| Chlorobenzene | 5.0 | | **51.3** | 50.00 | 0 | 102.7 | 51.17 | 0.33 | 12/28/2015 |
| Chloroethane | 10.0 | | **29.6** | 50.00 | 0 | 59.1 | 30.81 | 4.17 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115260** **SampType: LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **45.5** | 50.00 | 0 | 91.0 | 45.19 | 0.68 | 12/28/2015 |
| Chloromethane | 10.0 | | **33.8** | 50.00 | 0 | 67.7 | 35.03 | 3.43 | 12/28/2015 |
| Chloroprene | 20.0 | | **41.9** | 50.00 | 0 | 83.8 | 41.41 | 1.13 | 12/28/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **44.5** | 50.00 | 0 | 88.9 | 44.62 | 0.36 | 12/28/2015 |
| cis-1,3-Dichloropropene | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 49.54 | 1.24 | 12/28/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **39.6** | 50.00 | 0 | 79.1 | 40.52 | 2.42 | 12/28/2015 |
| Cyclohexanone | 50.0 | | **545** | 500.0 | 0 | 109.0 | 564.6 | 3.52 | 12/28/2015 |
| Dibromochloromethane | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 53.63 | 1.02 | 12/28/2015 |
| Dibromomethane | 5.0 | | **45.7** | 50.00 | 0 | 91.5 | 46.27 | 1.17 | 12/28/2015 |
| Dichlorodifluoromethane | 10.0 | | **53.8** | 50.00 | 0 | 107.5 | 53.83 | 0.13 | 12/28/2015 |
| Diisopropyl ether | 2.0 | | **42.1** | 50.00 | 0 | 84.2 | 41.60 | 1.15 | 12/28/2015 |
| Ethyl acetate | 10.0 | | **42.5** | 50.00 | 0 | 85.0 | 42.53 | 0.09 | 12/28/2015 |
| Ethyl ether | 5.0 | | **46.7** | 50.00 | 0 | 93.5 | 46.65 | 0.19 | 12/28/2015 |
| Ethyl methacrylate | 5.0 | | **46.7** | 50.00 | 0 | 93.5 | 46.96 | 0.49 | 12/28/2015 |
| Ethylbenzene | 5.0 | | **47.2** | 50.00 | 0 | 94.4 | 46.60 | 1.24 | 12/28/2015 |
| Ethyl-tert-butyl ether | 2.0 | | **43.9** | 50.00 | 0 | 87.8 | 44.31 | 0.95 | 12/28/2015 |
| Hexachlorobutadiene | 5.0 | S | **64.4** | 50.00 | 0 | 128.9 | 61.97 | 3.91 | 12/28/2015 |
| Hexachloroethane | 10.0 | | **50.1** | 50.00 | 0 | 100.3 | 50.80 | 1.31 | 12/28/2015 |
| Iodomethane | 5.0 | | **68.3** | 50.00 | 0 | 136.7 | 69.24 | 1.32 | 12/28/2015 |
| Isopropylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.5 | 50.78 | 1.91 | 12/28/2015 |
| m,p-Xylenes | 5.0 | | **96.0** | 100.0 | 0 | 96.0 | 95.42 | 0.59 | 12/28/2015 |
| Methacrylonitrile | 10.0 | | **43.2** | 50.00 | 0 | 86.4 | 42.96 | 0.56 | 12/28/2015 |
| Methyl Methacrylate | 5.0 | | **41.2** | 50.00 | 0 | 82.4 | 42.02 | 1.97 | 12/28/2015 |
| Methyl tert-butyl ether | 2.0 | | **47.9** | 50.00 | 0 | 95.8 | 47.88 | 0.02 | 12/28/2015 |
| Methylacrylate | 10.0 | | **47.4** | 50.00 | 0 | 94.8 | 47.90 | 1.05 | 12/28/2015 |
| Methylene chloride | 5.0 | | **43.0** | 50.00 | 0 | 86.0 | 42.93 | 0.19 | 12/28/2015 |
| Naphthalene | 10.0 | | **57.2** | 50.00 | 0 | 114.3 | 54.86 | 4.11 | 12/28/2015 |
| n-Butyl acetate | 25.0 | | **39.3** | 50.00 | 0 | 78.5 | 39.37 | 0.28 | 12/28/2015 |
| n-Butylbenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.8 | 48.65 | 2.56 | 12/28/2015 |
| n-Heptane | 20.0 | | **43.2** | 50.00 | 0 | 86.3 | 43.28 | 0.28 | 12/28/2015 |
| n-Hexane | 20.0 | | **48.8** | 50.00 | 0 | 97.5 | 49.42 | 1.32 | 12/28/2015 |
| Nitrobenzene | 50.0 | | **522** | 500.0 | 0 | 104.4 | 536.3 | 2.66 | 12/28/2015 |
| n-Propylbenzene | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 47.73 | 0.46 | 12/28/2015 |
| o-Xylene | 5.0 | | **47.0** | 50.00 | 0 | 94.1 | 46.54 | 1.07 | 12/28/2015 |
| Pentachloroethane | 20.0 | | **53.2** | 50.00 | 0 | 106.4 | 53.85 | 1.25 | 12/28/2015 |
| p-Isopropyltoluene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 52.29 | 1.89 | 12/28/2015 |
| Propionitrile | 50.0 | | **496** | 500.0 | 0 | 99.3 | 506.2 | 1.94 | 12/28/2015 |
| sec-Butylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 49.20 | 3.26 | 12/28/2015 |
| Styrene | 5.0 | | **51.1** | 50.00 | 0 | 102.3 | 50.07 | 2.09 | 12/28/2015 |
| tert-Amyl methyl ether | 2.0 | | **46.4** | 50.00 | 0 | 92.8 | 46.06 | 0.74 | 12/28/2015 |
| tert-Butyl alcohol | 25.0 | | **257** | 250.0 | 0 | 102.9 | 270.8 | 5.14 | 12/28/2015 |
| tert-Butylbenzene | 5.0 | | **45.3** | 50.00 | 0 | 90.6 | 45.33 | 0.07 | 12/28/2015 |
| Tetrachloroethene | 5.0 | | **56.8** | 50.00 | 0 | 113.7 | 56.09 | 1.35 | 12/28/2015 |
| Tetrahydrofuran | 20.0 | | **41.2** | 50.00 | 0 | 82.4 | 41.84 | 1.49 | 12/28/2015 |
| Toluene | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 47.64 | 2.14 | 12/28/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 47.69 | 0.65 | 12/28/2015 |
| trans-1,3-Dichloropropene | 5.0 | | **47.0** | 50.00 | 0 | 94.1 | 47.04 | 0.02 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115260** **SampType:** **LCSD** Units **µg/L** RPD Limit **40**

SampID: LCSD-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **37.2** | 50.00 | 0 | 74.4 | 38.66 | 3.88 | 12/28/2015 |
| Trichloroethene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 50.16 | 0.90 | 12/28/2015 |
| Trichlorofluoromethane | 5.0 | | **46.4** | 50.00 | 0 | 92.9 | 46.65 | 0.45 | 12/28/2015 |
| Vinyl acetate | 10.0 | | **41.2** | 50.00 | 0 | 82.3 | 43.95 | 6.53 | 12/28/2015 |
| Vinyl chloride | 2.0 | | **32.2** | 50.00 | 0 | 64.4 | 32.84 | 1.94 | 12/28/2015 |
| Xylenes, Total | 5.0 | | **143** | 150.0 | 0 | 95.3 | 142.0 | 0.74 | 12/28/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **91.8** | 100.0 | 0 | 91.8 | 92.31 | 0.51 | 12/28/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **97.2** | 100.0 | 0 | 97.2 | 96.58 | 0.63 | 12/28/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **76.7** | 100.0 | 0 | 76.7 | 79.18 | 3.13 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **39.7** | 50.00 | | 79.3 | | | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **44.4** | 50.00 | | 88.8 | | | 12/28/2015 |
| Surr: Toluene-d8 | | | **46.5** | 50.00 | | 93.0 | | | 12/28/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500

**Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115260** **SampType:** **LCS** Units **µg/L**

SampID: LCS-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 81.9 | 115 | 12/28/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **46.6** | 50.00 | 0 | 93.3 | 79.4 | 124 | 12/28/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **43.6** | 50.00 | 0 | 87.2 | 74.7 | 116 | 12/28/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | | **54.6** | 50.00 | 0 | 109.2 | 72.9 | 121 | 12/28/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **47.2** | 50.00 | 0 | 94.3 | 80.8 | 111 | 12/28/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **102** | 125.0 | 0 | 81.9 | 66.3 | 130 | 12/28/2015 |
| 1,1-Dichloroethane | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 79.4 | 114 | 12/28/2015 |
| 1,1-Dichloroethene | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 74.1 | 117 | 12/28/2015 |
| 1,1-Dichloropropene | 5.0 | | **47.5** | 50.00 | 0 | 94.9 | 81.7 | 116 | 12/28/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 79.7 | 118 | 12/28/2015 |
| 1,2,3-Trichloropropane | 5.0 | | **46.6** | 50.00 | 0 | 93.2 | 77.3 | 112 | 12/28/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **46.3** | 50.00 | 0 | 92.6 | 79.9 | 119 | 12/28/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 79.3 | 118 | 12/28/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 78.7 | 115 | 12/28/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **43.4** | 50.00 | 0 | 86.8 | 76 | 122 | 12/28/2015 |
| 1,2-Dibromoethane | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 80.8 | 114 | 12/28/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.7 | 78.3 | 112 | 12/28/2015 |
| 1,2-Dichloroethane | 5.0 | | **41.1** | 50.00 | 0 | 82.1 | 70.6 | 118 | 12/28/2015 |
| 1,2-Dichloropropane | 5.0 | | **46.2** | 50.00 | 0 | 92.4 | 79.6 | 113 | 12/28/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.6 | 77.5 | 115 | 12/28/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 78.6 | 117 | 12/28/2015 |
| 1,3-Dichloropropane | 5.0 | | **44.1** | 50.00 | 0 | 88.2 | 78.8 | 112 | 12/28/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 77.8 | 114 | 12/28/2015 |
| 1-Chlorobutane | 5.0 | | **43.2** | 50.00 | 0 | 86.4 | 78.6 | 115 | 12/28/2015 |
| 2,2-Dichloropropane | 5.0 | | **46.7** | 50.00 | 0 | 93.4 | 74.9 | 130 | 12/28/2015 |
| 2-Butanone | 25.0 | | **107** | 125.0 | 0 | 85.2 | 70.7 | 136 | 12/28/2015 |
| 2-Chloroethyl vinyl ether | 20.0 | | **44.6** | 50.00 | 0 | 89.2 | 52.5 | 145 | 12/28/2015 |
| 2-Chlorotoluene | 5.0 | | **45.9** | 50.00 | 0 | 91.7 | 77.4 | 114 | 12/28/2015 |
| 2-Hexanone | 25.0 | | **97.2** | 125.0 | 0 | 77.8 | 73.3 | 125 | 12/28/2015 |
| 2-Nitropropane | 50.0 | | **422** | 500.0 | 0 | 84.5 | 67.3 | 139 | 12/28/2015 |
| 4-Chlorotoluene | 5.0 | | **46.0** | 50.00 | 0 | 91.9 | 78.3 | 115 | 12/28/2015 |
| 4-Methyl-2-pentanone | 25.0 | | **107** | 125.0 | 0 | 85.6 | 76.3 | 122 | 12/28/2015 |
| Acetone | 25.0 | | **106** | 125.0 | 0 | 84.4 | 56.4 | 147 | 12/28/2015 |
| Acetonitrile | 50.0 | | **497** | 500.0 | 0 | 99.3 | 59.3 | 129 | 12/28/2015 |
| Acrolein | 100 | | **391** | 500.0 | 0 | 78.3 | 1 | 201 | 12/28/2015 |
| Acrylonitrile | 5.0 | | **44.6** | 50.00 | 0 | 89.2 | 74.1 | 128 | 12/28/2015 |
| Allyl chloride | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 71.5 | 123 | 12/28/2015 |
| Benzene | 2.0 | | **49.7** | 50.00 | 0 | 99.4 | 80 | 114 | 12/28/2015 |
| Bromobenzene | 5.0 | | **43.1** | 50.00 | 0 | 86.2 | 73.2 | 118 | 12/28/2015 |
| Bromochloromethane | 5.0 | | **41.6** | 50.00 | 0 | 83.2 | 73.3 | 121 | 12/28/2015 |
| Bromodichloromethane | 5.0 | | **47.8** | 50.00 | 0 | 95.7 | 81.6 | 121 | 12/28/2015 |
| Bromoform | 5.0 | | **55.9** | 50.00 | 0 | 111.8 | 83.1 | 127 | 12/28/2015 |
| Bromomethane | 10.0 | | **28.5** | 50.00 | 0 | 57.0 | 44.4 | 154 | 12/28/2015 |
| Carbon disulfide | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 73.2 | 118 | 12/28/2015 |
| Carbon tetrachloride | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 79.4 | 130 | 12/28/2015 |
| Chlorobenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 81.4 | 110 | 12/28/2015 |
| Chloroethane | 10.0 | | **30.8** | 50.00 | 0 | 61.6 | 52.1 | 137 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115260** **SampType: LCS** Units **µg/L**

SampID: LCS-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloroform | 5.0 | | **45.2** | 50.00 | 0 | 90.4 | 82.7 | 116 | 12/28/2015 |
| Chloromethane | 10.0 | | **35.0** | 50.00 | 0 | 70.1 | 48.2 | 144 | 12/28/2015 |
| Chloroprene | 20.0 | | **41.4** | 50.00 | 0 | 82.8 | 80.6 | 126 | 12/28/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **44.6** | 50.00 | 0 | 89.2 | 78.2 | 116 | 12/28/2015 |
| cis-1,3-Dichloropropene | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 83 | 119 | 12/28/2015 |
| cis-1,4-Dichloro-2-butene | 5.0 | | **40.5** | 50.00 | 0 | 81.0 | 60.7 | 137 | 12/28/2015 |
| Cyclohexanone | 50.0 | | **565** | 500.0 | 0 | 112.9 | 54.2 | 145 | 12/28/2015 |
| Dibromochloromethane | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 81.2 | 121 | 12/28/2015 |
| Dibromomethane | 5.0 | | **46.3** | 50.00 | 0 | 92.5 | 78.3 | 118 | 12/28/2015 |
| Dichlorodifluoromethane | 10.0 | | **53.8** | 50.00 | 0 | 107.7 | 20.6 | 154 | 12/28/2015 |
| Diisopropyl ether | 2.0 | | **41.6** | 50.00 | 0 | 83.2 | 73.1 | 116 | 12/28/2015 |
| Ethyl acetate | 10.0 | | **42.5** | 50.00 | 0 | 85.1 | 73.1 | 116 | 12/28/2015 |
| Ethyl ether | 5.0 | | **46.6** | 50.00 | 0 | 93.3 | 75.2 | 109 | 12/28/2015 |
| Ethyl methacrylate | 5.0 | | **47.0** | 50.00 | 0 | 93.9 | 80.1 | 113 | 12/28/2015 |
| Ethylbenzene | 5.0 | | **46.6** | 50.00 | 0 | 93.2 | 77.2 | 113 | 12/28/2015 |
| Ethyl-tert-butyl ether | 2.0 | | **44.3** | 50.00 | 0 | 88.6 | 75 | 118 | 12/28/2015 |
| Hexachlorobutadiene | 5.0 | S | **62.0** | 50.00 | 0 | 123.9 | 77.3 | 123 | 12/28/2015 |
| Hexachloroethane | 10.0 | | **50.8** | 50.00 | 0 | 101.6 | 74.6 | 117 | 12/28/2015 |
| Iodomethane | 5.0 | | **69.2** | 50.00 | 0 | 138.5 | 61.3 | 140 | 12/28/2015 |
| Isopropylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.6 | 81.3 | 114 | 12/28/2015 |
| m,p-Xylenes | 5.0 | | **95.4** | 100.0 | 0 | 95.4 | 79.6 | 113 | 12/28/2015 |
| Methacrylonitrile | 10.0 | | **43.0** | 50.00 | 0 | 85.9 | 77.2 | 125 | 12/28/2015 |
| Methyl Methacrylate | 5.0 | | **42.0** | 50.00 | 0 | 84.0 | 74.2 | 121 | 12/28/2015 |
| Methyl tert-butyl ether | 2.0 | | **47.9** | 50.00 | 0 | 95.8 | 76.8 | 117 | 12/28/2015 |
| Methylacrylate | 10.0 | | **47.9** | 50.00 | 0 | 95.8 | 78 | 124 | 12/28/2015 |
| Methylene chloride | 5.0 | | **42.9** | 50.00 | 0 | 85.9 | 74.1 | 114 | 12/28/2015 |
| Naphthalene | 10.0 | | **54.9** | 50.00 | 0 | 109.7 | 77.9 | 122 | 12/28/2015 |
| n-Butyl acetate | 25.0 | | **39.4** | 50.00 | 0 | 78.7 | 74 | 120 | 12/28/2015 |
| n-Butylbenzene | 5.0 | | **48.6** | 50.00 | 0 | 97.3 | 71.1 | 120 | 12/28/2015 |
| n-Heptane | 20.0 | | **43.3** | 50.00 | 0 | 86.6 | 67.4 | 129 | 12/28/2015 |
| n-Hexane | 20.0 | | **49.4** | 50.00 | 0 | 98.8 | 68.4 | 126 | 12/28/2015 |
| Nitrobenzene | 50.0 | | **536** | 500.0 | 0 | 107.3 | 37.9 | 181 | 12/28/2015 |
| n-Propylbenzene | 5.0 | | **47.7** | 50.00 | 0 | 95.5 | 74.6 | 118 | 12/28/2015 |
| o-Xylene | 5.0 | | **46.5** | 50.00 | 0 | 93.1 | 80.1 | 111 | 12/28/2015 |
| Pentachloroethane | 20.0 | | **53.8** | 50.00 | 0 | 107.7 | 78.8 | 117 | 12/28/2015 |
| p-Isopropyltoluene | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 77.6 | 118 | 12/28/2015 |
| Propionitrile | 50.0 | | **506** | 500.0 | 0 | 101.2 | 72.9 | 137 | 12/28/2015 |
| sec-Butylbenzene | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 74.5 | 119 | 12/28/2015 |
| Styrene | 5.0 | | **50.1** | 50.00 | 0 | 100.1 | 83.4 | 113 | 12/28/2015 |
| tert-Amyl methyl ether | 2.0 | | **46.1** | 50.00 | 0 | 92.1 | 78.7 | 117 | 12/28/2015 |
| tert-Butyl alcohol | 25.0 | | **271** | 250.0 | 0 | 108.3 | 58.1 | 139 | 12/28/2015 |
| tert-Butylbenzene | 5.0 | | **45.3** | 50.00 | 0 | 90.7 | 75.9 | 114 | 12/28/2015 |
| Tetrachloroethene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 72.5 | 125 | 12/28/2015 |
| Tetrahydrofuran | 20.0 | | **41.8** | 50.00 | 0 | 83.7 | 69.6 | 125 | 12/28/2015 |
| Toluene | 5.0 | | **47.6** | 50.00 | 0 | 95.3 | 77.5 | 113 | 12/28/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **47.7** | 50.00 | 0 | 95.4 | 79 | 114 | 12/28/2015 |
| trans-1,3-Dichloropropene | 5.0 | | **47.0** | 50.00 | 0 | 94.1 | 78 | 115 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115260** **SampType: LCS** Units **µg/L**

SampID: LCS-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 10.0 | | **38.7** | 50.00 | 0 | 77.3 | 63.3 | 128 | 12/28/2015 |
| Trichloroethene | 5.0 | | **50.2** | 50.00 | 0 | 100.3 | 84.4 | 114 | 12/28/2015 |
| Trichlorofluoromethane | 5.0 | | **46.6** | 50.00 | 0 | 93.3 | 75.2 | 132 | 12/28/2015 |
| Vinyl acetate | 10.0 | | **44.0** | 50.00 | 0 | 87.9 | 64.5 | 127 | 12/28/2015 |
| Vinyl chloride | 2.0 | | **32.8** | 50.00 | 0 | 65.7 | 58 | 134 | 12/28/2015 |
| Xylenes, Total | 5.0 | | **142** | 150.0 | 0 | 94.6 | 80.1 | 111 | 12/28/2015 |
| 1,2-Dichloroethene, Total | 5.0 | | **92.3** | 100.0 | 0 | 92.3 | 78.2 | 116 | 12/28/2015 |
| 1,3-Dichloropropene, Total | 5.0 | | **96.6** | 100.0 | 0 | 96.6 | 78 | 119 | 12/28/2015 |
| 1,4-Dichloro-2-butene, Total | 5.0 | | **79.2** | 100.0 | 0 | 79.2 | 60.7 | 137 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **39.9** | 50.00 | | 79.7 | 74.7 | 129 | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **44.1** | 50.00 | | 88.3 | 86 | 119 | 12/28/2015 |
| Surr: Toluene-d8 | | | **47.5** | 50.00 | | 95.0 | 84.1 | 114 | 12/28/2015 |

**Batch 115260** **SampType: LCSGD** Units **µg/L** RPD Limit **20**

SampID: LCSGD-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1710** | 2000 | 0 | 85.5 | 1762 | 3.02 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **39.9** | 50.00 | | 79.8 | | | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **45.2** | 50.00 | | 90.5 | | | 12/28/2015 |
| Surr: Toluene-d8 | | | **47.6** | 50.00 | | 95.3 | | | 12/28/2015 |

**Batch 115260** **SampType: LCSG** Units **µg/L**

SampID: LCSG-N151228-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1760** | 2000 | 0 | 88.1 | 70 | 130 | 12/28/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **40.1** | 50.00 | | 80.2 | 74.7 | 129 | 12/28/2015 |
| Surr: 4-Bromofluorobenzene | | | **45.0** | 50.00 | | 90.0 | 86 | 119 | 12/28/2015 |
| Surr: Toluene-d8 | | | **47.4** | 50.00 | | 94.8 | 84.3 | 114 | 12/28/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115155** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/22/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/22/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/22/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115155** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/22/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/22/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/22/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/22/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115155** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/22/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.4** | 50.00 | | 100.9 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.6** | 50.00 | | 101.1 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **51.6** | 50.00 | | 103.3 | 86 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115155** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **47.3** | 50.00 | 0 | 94.5 | 46.05 | 2.61 | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **44.3** | 50.00 | 0 | 88.6 | 43.91 | 0.88 | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **47.4** | 50.00 | 0 | 94.7 | 47.56 | 0.40 | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **43.4** | 50.00 | 0 | 86.8 | 42.83 | 1.37 | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **46.1** | 50.00 | 0 | 92.3 | 43.86 | 5.07 | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **113** | 125.0 | 0 | 90.1 | 112.5 | 0.05 | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **46.8** | 50.00 | 0 | 93.7 | 46.56 | 0.60 | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **46.3** | 50.00 | 0 | 92.6 | 46.19 | 0.24 | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **46.7** | 50.00 | 0 | 93.4 | 46.06 | 1.40 | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 49.93 | 1.23 | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **45.4** | 50.00 | 0 | 90.7 | 44.49 | 1.96 | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 48.70 | 2.21 | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 51.13 | 0.16 | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **50.5** | 50.00 | 0 | 100.9 | 49.95 | 1.04 | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **48.4** | 50.00 | 0 | 96.9 | 49.19 | 1.54 | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **46.9** | 50.00 | 0 | 93.8 | 45.64 | 2.68 | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.7 | 49.07 | 2.59 | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **44.9** | 50.00 | 0 | 89.8 | 44.08 | 1.80 | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **45.0** | 50.00 | 0 | 90.1 | 44.15 | 2.00 | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 50.21 | 1.99 | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 50.00 | 1.92 | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **45.6** | 50.00 | 0 | 91.1 | 44.33 | 2.76 | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 50.09 | 0.46 | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **44.8** | 50.00 | 0 | 89.7 | 44.34 | 1.12 | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **44.5** | 50.00 | 0 | 89.0 | 44.50 | 0.02 | 12/22/2015 |
| 2-Butanone | 50.0 | | **120** | 125.0 | 0 | 95.8 | 115.0 | 3.99 | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **49.1** | 50.00 | 0 | 98.1 | 48.93 | 0.27 | 12/22/2015 |
| 2-Hexanone | 50.0 | | **130** | 125.0 | 0 | 104.0 | 125.5 | 3.55 | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **470** | 500.0 | 0 | 93.9 | 453.5 | 3.47 | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **48.4** | 50.00 | 0 | 96.9 | 48.52 | 0.19 | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **120** | 125.0 | 0 | 95.7 | 115.5 | 3.45 | 12/22/2015 |
| Acetone | 50.0 | | **128** | 125.0 | 0 | 102.3 | 123.4 | 3.61 | 12/22/2015 |
| Acetonitrile | 100 | | **460** | 500.0 | 0 | 91.9 | 448.3 | 2.47 | 12/22/2015 |
| Acrolein | 100 | | **438** | 500.0 | 0 | 87.6 | 429.2 | 2.10 | 12/22/2015 |
| Acrylonitrile | 10.0 | | **45.5** | 50.00 | 0 | 91.0 | 44.34 | 2.63 | 12/22/2015 |
| Allyl chloride | 5.0 | | **46.1** | 50.00 | 0 | 92.1 | 46.08 | 0.02 | 12/22/2015 |
| Benzene | 1.0 | | **45.5** | 50.00 | 0 | 91.0 | 45.03 | 1.06 | 12/22/2015 |
| Bromobenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.3 | 48.25 | 1.83 | 12/22/2015 |
| Bromochloromethane | 5.0 | | **46.5** | 50.00 | 0 | 93.0 | 46.05 | 0.97 | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **45.3** | 50.00 | 0 | 90.6 | 43.91 | 3.09 | 12/22/2015 |
| Bromoform | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 48.28 | 2.09 | 12/22/2015 |
| Bromomethane | 10.0 | | **24.9** | 50.00 | 0 | 49.8 | 23.69 | 4.98 | 12/22/2015 |
| Carbon disulfide | 5.0 | | **43.7** | 50.00 | 0 | 87.5 | 43.77 | 0.09 | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **46.1** | 50.00 | 0 | 92.2 | 44.91 | 2.64 | 12/22/2015 |
| Chlorobenzene | 5.0 | | **47.8** | 50.00 | 0 | 95.5 | 46.13 | 3.47 | 12/22/2015 |
| Chloroethane | 10.0 | | **39.8** | 50.00 | 0 | 79.5 | 39.41 | 0.86 | 12/22/2015 |
| Chloroform | 5.0 | | **46.0** | 50.00 | 0 | 91.9 | 45.48 | 1.03 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115155** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **33.1** | 50.00 | 0 | 66.2 | 31.95 | 3.57 | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **47.2** | 50.00 | 0 | 94.3 | 46.83 | 0.70 | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **46.1** | 50.00 | 0 | 92.3 | 45.88 | 0.57 | 12/22/2015 |
| Cyclohexanone | 100 | | **456** | 500.0 | 0 | 91.2 | 445.6 | 2.34 | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 48.43 | 1.82 | 12/22/2015 |
| Dibromomethane | 5.0 | | **46.7** | 50.00 | 0 | 93.4 | 45.67 | 2.27 | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **18.7** | 50.00 | 0 | 37.4 | 19.64 | 4.85 | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **44.2** | 50.00 | 0 | 88.5 | 44.02 | 0.50 | 12/22/2015 |
| Ethyl ether | 5.0 | | **42.0** | 50.00 | 0 | 83.9 | 40.61 | 3.25 | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **49.0** | 50.00 | 0 | 97.9 | 47.24 | 3.56 | 12/22/2015 |
| Ethylbenzene | 5.0 | | **48.4** | 50.00 | 0 | 96.7 | 47.41 | 2.00 | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **44.9** | 50.00 | 0 | 89.9 | 43.82 | 2.52 | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 53.27 | 1.92 | 12/22/2015 |
| Hexachloroethane | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 51.84 | 1.85 | 12/22/2015 |
| Iodomethane | 10.0 | | **43.5** | 50.00 | 0 | 87.0 | 40.94 | 6.04 | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 48.67 | 3.27 | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **101** | 100.0 | 0 | 101.1 | 98.56 | 2.58 | 12/22/2015 |
| Methacrylonitrile | 50.0 | J | **47** | 50.00 | 0 | 94.5 | 45.55 | 0.00 | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **44.5** | 50.00 | 0 | 89.0 | 43.13 | 3.08 | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **43.2** | 50.00 | 0 | 86.5 | 41.68 | 3.67 | 12/22/2015 |
| Methylacrylate | 10.0 | | **45.3** | 50.00 | 0 | 90.6 | 44.55 | 1.63 | 12/22/2015 |
| Methylene chloride | 5.0 | | **44.4** | 50.00 | 0 | 88.9 | 43.45 | 2.23 | 12/22/2015 |
| Naphthalene | 10.0 | | **51.5** | 50.00 | 0 | 103.1 | 51.03 | 0.99 | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 52.99 | 1.31 | 12/22/2015 |
| n-Heptane | 20.0 | | **49.5** | 50.00 | 0 | 99.0 | 47.57 | 4.00 | 12/22/2015 |
| n-Hexane | 20.0 | | **46.8** | 50.00 | 0 | 93.6 | 45.05 | 3.77 | 12/22/2015 |
| Nitrobenzene | 100 | | **489** | 500.0 | 0 | 97.8 | 483.9 | 1.10 | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 50.05 | 0.28 | 12/22/2015 |
| o-Xylene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 48.34 | 2.77 | 12/22/2015 |
| Pentachloroethane | 5.0 | | **44.2** | 50.00 | 0 | 88.4 | 48.71 | 9.66 | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **52.6** | 50.00 | 0 | 105.1 | 52.02 | 1.03 | 12/22/2015 |
| Propionitrile | 50.0 | | **457** | 500.0 | 0 | 91.3 | 450.1 | 1.46 | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 50.08 | 0.64 | 12/22/2015 |
| Styrene | 5.0 | | **49.2** | 50.00 | 0 | 98.3 | 47.60 | 3.20 | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **44.8** | 50.00 | 0 | 89.5 | 43.75 | 2.26 | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **228** | 250.0 | 0 | 91.1 | 212.1 | 7.10 | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 50.13 | 0.66 | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 47.75 | 10.23 | 12/22/2015 |
| Tetrahydrofuran | 50.0 | J | **42** | 50.00 | 0 | 84.0 | 40.76 | 0.00 | 12/22/2015 |
| Toluene | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 46.73 | 2.22 | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **46.9** | 50.00 | 0 | 93.7 | 47.19 | 0.70 | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **49.1** | 50.00 | 0 | 98.2 | 48.01 | 2.27 | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 51.05 | 1.54 | 12/22/2015 |
| Trichloroethene | 5.0 | | **46.8** | 50.00 | 0 | 93.7 | 45.71 | 2.44 | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **44.0** | 50.00 | 0 | 88.0 | 43.86 | 0.30 | 12/22/2015 |
| Vinyl acetate | 50.0 | J | **45** | 50.00 | 0 | 90.1 | 44.65 | 0.00 | 12/22/2015 |
| Vinyl chloride | 2.0 | | **38.4** | 50.00 | 0 | 76.8 | 37.09 | 3.44 | 12/22/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115155** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **151** | 150.0 | 0 | 100.6 | 146.9 | 2.65 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.3** | 50.00 | | 96.7 | | | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.0** | 50.00 | | 99.9 | | | 12/22/2015 |
| Surr: Toluene-d8 | | | **51.3** | 50.00 | | 102.6 | | | 12/22/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121500

**Client Project:** NGA 2015-0461.21

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115155** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **46.0** | 50.00 | 0 | 92.1 | 83.1 | 114 | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **43.9** | 50.00 | 0 | 87.8 | 78.5 | 119 | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **47.6** | 50.00 | 0 | 95.1 | 67.4 | 120 | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **42.8** | 50.00 | 0 | 85.7 | 75.4 | 121 | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **43.9** | 50.00 | 0 | 87.7 | 81.1 | 111 | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **113** | 125.0 | 0 | 90.0 | 55.4 | 131 | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **46.6** | 50.00 | 0 | 93.1 | 80.1 | 116 | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **46.2** | 50.00 | 0 | 92.4 | 73.1 | 121 | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **46.1** | 50.00 | 0 | 92.1 | 82.2 | 114 | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 81.7 | 130 | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **44.5** | 50.00 | 0 | 89.0 | 67.8 | 118 | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 82.1 | 127 | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **51.1** | 50.00 | 0 | 102.3 | 72.3 | 141 | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 99.9 | 79.7 | 123 | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **49.2** | 50.00 | 0 | 98.4 | 62.1 | 123 | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **45.6** | 50.00 | 0 | 91.3 | 82.4 | 112 | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **49.1** | 50.00 | 0 | 98.1 | 82.7 | 119 | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **44.1** | 50.00 | 0 | 88.2 | 72.8 | 120 | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **44.2** | 50.00 | 0 | 88.3 | 80 | 116 | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 81.5 | 125 | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 82 | 124 | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **44.3** | 50.00 | 0 | 88.7 | 79.8 | 113 | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 81.1 | 124 | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **44.3** | 50.00 | 0 | 88.7 | 77.2 | 113 | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **44.5** | 50.00 | 0 | 89.0 | 76.6 | 121 | 12/22/2015 |
| 2-Butanone | 50.0 | | **115** | 125.0 | 0 | 92.0 | 62.8 | 131 | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **48.9** | 50.00 | 0 | 97.9 | 78.8 | 121 | 12/22/2015 |
| 2-Hexanone | 50.0 | | **125** | 125.0 | 0 | 100.4 | 63.1 | 125 | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **454** | 500.0 | 0 | 90.7 | 61.2 | 129 | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 77.6 | 124 | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **116** | 125.0 | 0 | 92.4 | 60.6 | 126 | 12/22/2015 |
| Acetone | 50.0 | | **123** | 125.0 | 0 | 98.7 | 39.5 | 159 | 12/22/2015 |
| Acetonitrile | 100 | | **448** | 500.0 | 0 | 89.7 | 64.8 | 123 | 12/22/2015 |
| Acrolein | 100 | | **429** | 500.0 | 0 | 85.8 | 1 | 167 | 12/22/2015 |
| Acrylonitrile | 10.0 | | **44.3** | 50.00 | 0 | 88.7 | 67 | 124 | 12/22/2015 |
| Allyl chloride | 5.0 | | **46.1** | 50.00 | 0 | 92.2 | 58.5 | 129 | 12/22/2015 |
| Benzene | 1.0 | | **45.0** | 50.00 | 0 | 90.1 | 80.8 | 117 | 12/22/2015 |
| Bromobenzene | 5.0 | | **48.2** | 50.00 | 0 | 96.5 | 79.6 | 117 | 12/22/2015 |
| Bromochloromethane | 5.0 | | **46.0** | 50.00 | 0 | 92.1 | 70.7 | 121 | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **43.9** | 50.00 | 0 | 87.8 | 80.7 | 121 | 12/22/2015 |
| Bromoform | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 79.8 | 118 | 12/22/2015 |
| Bromomethane | 10.0 | | **23.7** | 50.00 | 0 | 47.4 | 1 | 175 | 12/22/2015 |
| Carbon disulfide | 5.0 | | **43.8** | 50.00 | 0 | 87.5 | 62.8 | 123 | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **44.9** | 50.00 | 0 | 89.8 | 77.6 | 123 | 12/22/2015 |
| Chlorobenzene | 5.0 | | **46.1** | 50.00 | 0 | 92.3 | 85.6 | 116 | 12/22/2015 |
| Chloroethane | 10.0 | | **39.4** | 50.00 | 0 | 78.8 | 60.2 | 125 | 12/22/2015 |
| Chloroform | 5.0 | | **45.5** | 50.00 | 0 | 91.0 | 77.9 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115155** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **32.0** | 50.00 | 0 | 63.9 | 29.9 | 157 | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **46.8** | 50.00 | 0 | 93.7 | 80.1 | 116 | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **45.9** | 50.00 | 0 | 91.8 | 80.5 | 121 | 12/22/2015 |
| Cyclohexanone | 100 | | **446** | 500.0 | 0 | 89.1 | 45.4 | 128 | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **48.4** | 50.00 | 0 | 96.9 | 84.3 | 116 | 12/22/2015 |
| Dibromomethane | 5.0 | | **45.7** | 50.00 | 0 | 91.3 | 76.6 | 115 | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **19.6** | 50.00 | 0 | 39.3 | 1 | 200 | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **44.0** | 50.00 | 0 | 88.0 | 73.6 | 119 | 12/22/2015 |
| Ethyl ether | 5.0 | | **40.6** | 50.00 | 0 | 81.2 | 73.4 | 116 | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **47.2** | 50.00 | 0 | 94.5 | 76.2 | 120 | 12/22/2015 |
| Ethylbenzene | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 84.8 | 116 | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **43.8** | 50.00 | 0 | 87.6 | 73.8 | 119 | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 74 | 135 | 12/22/2015 |
| Hexachloroethane | 5.0 | | **51.8** | 50.00 | 0 | 103.7 | 76.4 | 121 | 12/22/2015 |
| Iodomethane | 10.0 | | **40.9** | 50.00 | 0 | 81.9 | 38.7 | 161 | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 85 | 125 | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **98.6** | 100.0 | 0 | 98.6 | 85.3 | 120 | 12/22/2015 |
| Methacrylonitrile | 50.0 | J | **46** | 50.00 | 0 | 91.1 | 65.7 | 120 | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **43.1** | 50.00 | 0 | 86.3 | 69.1 | 114 | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **41.7** | 50.00 | 0 | 83.4 | 66.6 | 125 | 12/22/2015 |
| Methylacrylate | 10.0 | | **44.6** | 50.00 | 0 | 89.1 | 69.7 | 121 | 12/22/2015 |
| Methylene chloride | 5.0 | | **43.4** | 50.00 | 0 | 86.9 | 73.4 | 115 | 12/22/2015 |
| Naphthalene | 10.0 | | **51.0** | 50.00 | 0 | 102.1 | 70.1 | 134 | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **53.0** | 50.00 | 0 | 106.0 | 78.4 | 138 | 12/22/2015 |
| n-Heptane | 20.0 | | **47.6** | 50.00 | 0 | 95.1 | 74.3 | 125 | 12/22/2015 |
| n-Hexane | 20.0 | | **45.0** | 50.00 | 0 | 90.1 | 66.3 | 129 | 12/22/2015 |
| Nitrobenzene | 100 | | **484** | 500.0 | 0 | 96.8 | 20.1 | 165 | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **50.0** | 50.00 | 0 | 100.1 | 79.1 | 125 | 12/22/2015 |
| o-Xylene | 5.0 | | **48.3** | 50.00 | 0 | 96.7 | 81.9 | 118 | 12/22/2015 |
| Pentachloroethane | 5.0 | | **48.7** | 50.00 | 0 | 97.4 | 72.7 | 123 | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 82.7 | 129 | 12/22/2015 |
| Propionitrile | 50.0 | | **450** | 500.0 | 0 | 90.0 | 64.3 | 121 | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 81.3 | 125 | 12/22/2015 |
| Styrene | 5.0 | | **47.6** | 50.00 | 0 | 95.2 | 88.2 | 122 | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **43.8** | 50.00 | 0 | 87.5 | 74.5 | 120 | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **212** | 250.0 | 0 | 84.8 | 51.3 | 129 | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **50.1** | 50.00 | 0 | 100.3 | 74.8 | 125 | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **47.8** | 50.00 | 0 | 95.5 | 84.2 | 122 | 12/22/2015 |
| Tetrahydrofuran | 50.0 | J | **41** | 50.00 | 0 | 81.5 | 61 | 118 | 12/22/2015 |
| Toluene | 5.0 | | **46.7** | 50.00 | 0 | 93.5 | 81.3 | 113 | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **47.2** | 50.00 | 0 | 94.4 | 78.2 | 118 | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **48.0** | 50.00 | 0 | 96.0 | 81.7 | 124 | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **51.0** | 50.00 | 0 | 102.1 | 63.9 | 117 | 12/22/2015 |
| Trichloroethene | 5.0 | | **45.7** | 50.00 | 0 | 91.4 | 81 | 123 | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **43.9** | 50.00 | 0 | 87.7 | 66.8 | 131 | 12/22/2015 |
| Vinyl acetate | 50.0 | J | **45** | 50.00 | 0 | 89.3 | 64.3 | 122 | 12/22/2015 |
| Vinyl chloride | 2.0 | | **37.1** | 50.00 | 0 | 74.2 | 45.2 | 140 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115155** **SampType: LCS** Units **µg/Kg**

SampID: LCS-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **147** | 150.0 | 0 | 97.9 | 85.3 | 118 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.1** | 50.00 | | 98.1 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.8** | 50.00 | | 101.6 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **51.2** | 50.00 | | 102.5 | 86 | 116 | 12/22/2015 |

**Batch 115155** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1740** | 2000 | 0 | 86.8 | 1866 | 7.22 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **48.6** | 50.00 | | 97.1 | | | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.3 | | | 12/22/2015 |
| Surr: Toluene-d8 | | | **52.8** | 50.00 | | 105.5 | | | 12/22/2015 |

**Batch 115155** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-Y151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1870** | 2000 | 0 | 93.3 | 70 | 130 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.8** | 50.00 | | 99.7 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.4 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **53.0** | 50.00 | | 105.9 | 86 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/22/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/22/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/22/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/22/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/22/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/22/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/22/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/22/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/22/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/22/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/22/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.8** | 50.00 | | 99.6 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **51.0** | 50.00 | | 101.9 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **48.6** | 50.00 | | 97.2 | 86 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121500

**Client Project:** NGA 2015-0461.21

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 83.1 | 114 | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **55.9** | 50.00 | 0 | 111.7 | 78.5 | 119 | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 67.4 | 120 | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **56.6** | 50.00 | 0 | 113.1 | 75.4 | 121 | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 81.1 | 111 | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **118** | 125.0 | 0 | 94.5 | 55.4 | 131 | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.6** | 50.00 | 0 | 107.2 | 80.1 | 116 | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **53.8** | 50.00 | 0 | 107.5 | 73.1 | 121 | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **56.7** | 50.00 | 0 | 113.4 | 82.2 | 114 | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 81.7 | 130 | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **48.8** | 50.00 | 0 | 97.7 | 67.8 | 118 | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 82.1 | 127 | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **59.2** | 50.00 | 0 | 118.4 | 72.3 | 141 | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **56.0** | 50.00 | 0 | 112.0 | 79.7 | 123 | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **45.8** | 50.00 | 0 | 91.5 | 62.1 | 123 | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.3** | 50.00 | 0 | 96.5 | 82.4 | 112 | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 82.7 | 119 | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 72.8 | 120 | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **53.3** | 50.00 | 0 | 106.7 | 80 | 116 | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 81.5 | 125 | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **55.8** | 50.00 | 0 | 111.6 | 82 | 124 | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.8** | 50.00 | 0 | 99.5 | 79.8 | 113 | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 81.1 | 124 | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 77.2 | 113 | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **56.7** | 50.00 | 0 | 113.5 | 76.6 | 121 | 12/22/2015 |
| 2-Butanone | 50.0 | | **137** | 125.0 | 0 | 109.4 | 62.8 | 131 | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **55.3** | 50.00 | 0 | 110.6 | 78.8 | 121 | 12/22/2015 |
| 2-Hexanone | 50.0 | | **127** | 125.0 | 0 | 101.8 | 63.1 | 125 | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **575** | 500.0 | 0 | 114.9 | 61.2 | 129 | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **56.5** | 50.00 | 0 | 113.1 | 77.6 | 124 | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **121** | 125.0 | 0 | 97.1 | 60.6 | 126 | 12/22/2015 |
| Acetone | 50.0 | | **157** | 125.0 | 0 | 125.4 | 39.5 | 159 | 12/22/2015 |
| Acetonitrile | 100 | | **541** | 500.0 | 0 | 108.2 | 64.8 | 123 | 12/22/2015 |
| Acrolein | 100 | | **518** | 500.0 | 0 | 103.7 | 1 | 167 | 12/22/2015 |
| Acrylonitrile | 10.0 | | **46.6** | 50.00 | 0 | 93.3 | 67 | 124 | 12/22/2015 |
| Allyl chloride | 5.0 | | **52.4** | 50.00 | 0 | 104.8 | 58.5 | 129 | 12/22/2015 |
| Benzene | 1.0 | | **55.3** | 50.00 | 0 | 110.5 | 80.8 | 117 | 12/22/2015 |
| Bromobenzene | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 79.6 | 117 | 12/22/2015 |
| Bromochloromethane | 5.0 | | **52.6** | 50.00 | 0 | 105.1 | 70.7 | 121 | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 80.7 | 121 | 12/22/2015 |
| Bromoform | 5.0 | | **55.3** | 50.00 | 0 | 110.5 | 79.8 | 118 | 12/22/2015 |
| Bromomethane | 10.0 | | **45.3** | 50.00 | 0 | 90.6 | 1 | 175 | 12/22/2015 |
| Carbon disulfide | 5.0 | | **52.0** | 50.00 | 0 | 104.0 | 62.8 | 123 | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **57.5** | 50.00 | 0 | 115.1 | 77.6 | 123 | 12/22/2015 |
| Chlorobenzene | 5.0 | | **54.2** | 50.00 | 0 | 108.3 | 85.6 | 116 | 12/22/2015 |
| Chloroethane | 10.0 | | **51.4** | 50.00 | 0 | 102.9 | 60.2 | 125 | 12/22/2015 |
| Chloroform | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 77.9 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **38.0** | 50.00 | 0 | 75.9 | 29.9 | 157 | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 80.1 | 116 | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **55.0** | 50.00 | 0 | 110.1 | 80.5 | 121 | 12/22/2015 |
| Cyclohexanone | 100 | | **454** | 500.0 | 0 | 90.9 | 45.4 | 128 | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 84.3 | 116 | 12/22/2015 |
| Dibromomethane | 5.0 | | **53.1** | 50.00 | 0 | 106.1 | 76.6 | 115 | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **30.4** | 50.00 | 0 | 60.9 | 1 | 200 | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **49.6** | 50.00 | 0 | 99.3 | 73.6 | 119 | 12/22/2015 |
| Ethyl ether | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 73.4 | 116 | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 76.2 | 120 | 12/22/2015 |
| Ethylbenzene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 84.8 | 116 | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **50.4** | 50.00 | 0 | 100.8 | 73.8 | 119 | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **58.0** | 50.00 | 0 | 116.0 | 74 | 135 | 12/22/2015 |
| Hexachloroethane | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 76.4 | 121 | 12/22/2015 |
| Iodomethane | 10.0 | | **55.8** | 50.00 | 0 | 111.6 | 38.7 | 161 | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 85 | 125 | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **111** | 100.0 | 0 | 110.5 | 85.3 | 120 | 12/22/2015 |
| Methacrylonitrile | 50.0 | | **50.7** | 50.00 | 0 | 101.5 | 65.7 | 120 | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 69.1 | 114 | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **49.6** | 50.00 | 0 | 99.1 | 66.6 | 125 | 12/22/2015 |
| Methylacrylate | 10.0 | | **54.7** | 50.00 | 0 | 109.4 | 69.7 | 121 | 12/22/2015 |
| Methylene chloride | 5.0 | | **53.7** | 50.00 | 0 | 107.5 | 73.4 | 115 | 12/22/2015 |
| Naphthalene | 10.0 | | **50.6** | 50.00 | 0 | 101.3 | 70.1 | 134 | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **58.4** | 50.00 | 0 | 116.9 | 78.4 | 138 | 12/22/2015 |
| n-Heptane | 20.0 | | **57.8** | 50.00 | 0 | 115.6 | 74.3 | 125 | 12/22/2015 |
| n-Hexane | 20.0 | | **57.5** | 50.00 | 0 | 114.9 | 66.3 | 129 | 12/22/2015 |
| Nitrobenzene | 100 | | **488** | 500.0 | 0 | 97.6 | 20.1 | 165 | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **56.5** | 50.00 | 0 | 112.9 | 79.1 | 125 | 12/22/2015 |
| o-Xylene | 5.0 | | **54.6** | 50.00 | 0 | 109.3 | 81.9 | 118 | 12/22/2015 |
| Pentachloroethane | 5.0 | | **57.4** | 50.00 | 0 | 114.9 | 72.7 | 123 | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 82.7 | 129 | 12/22/2015 |
| Propionitrile | 50.0 | | **533** | 500.0 | 0 | 106.5 | 64.3 | 121 | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 81.3 | 125 | 12/22/2015 |
| Styrene | 5.0 | | **55.6** | 50.00 | 0 | 111.2 | 88.2 | 122 | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 74.5 | 120 | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **260** | 250.0 | 0 | 103.9 | 51.3 | 129 | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **54.6** | 50.00 | 0 | 109.2 | 74.8 | 125 | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 84.2 | 122 | 12/22/2015 |
| Tetrahydrofuran | 50.0 | | **50.8** | 50.00 | 0 | 101.6 | 61 | 118 | 12/22/2015 |
| Toluene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 81.3 | 113 | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.6** | 50.00 | 0 | 109.1 | 78.2 | 118 | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.6** | 50.00 | 0 | 105.3 | 81.7 | 124 | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 63.9 | 117 | 12/22/2015 |
| Trichloroethene | 5.0 | | **56.6** | 50.00 | 0 | 113.2 | 81 | 123 | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 66.8 | 131 | 12/22/2015 |
| Vinyl acetate | 50.0 | | **53.9** | 50.00 | 0 | 107.8 | 64.3 | 122 | 12/22/2015 |
| Vinyl chloride | 2.0 | | **46.1** | 50.00 | 0 | 92.2 | 45.2 | 140 | 12/22/2015 |

**Client:** SCI Engineering, Inc.

**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **165** | 150.0 | 0 | 110.1 | 85.3 | 118 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.3** | 50.00 | | 98.6 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.2** | 50.00 | | 100.5 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **46.8** | 50.00 | | 93.5 | 86 | 116 | 12/22/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 51.62 | 3.55 | 12/22/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **52.9** | 50.00 | 0 | 105.9 | 55.86 | 5.37 | 12/22/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.6** | 50.00 | 0 | 97.1 | 48.91 | 0.70 | 12/22/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 56.55 | 6.63 | 12/22/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **49.0** | 50.00 | 0 | 98.0 | 49.38 | 0.81 | 12/22/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **124** | 125.0 | 0 | 99.1 | 118.1 | 4.77 | 12/22/2015 |
| 1,1-Dichloroethane | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 53.62 | 5.17 | 12/22/2015 |
| 1,1-Dichloroethene | 5.0 | | **50.9** | 50.00 | 0 | 101.7 | 53.76 | 5.54 | 12/22/2015 |
| 1,1-Dichloropropene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 56.69 | 6.01 | 12/22/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **54.1** | 50.00 | 0 | 108.2 | 55.80 | 3.06 | 12/22/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **48.4** | 50.00 | 0 | 96.9 | 48.83 | 0.82 | 12/22/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 50.32 | 3.17 | 12/22/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **56.1** | 50.00 | 0 | 112.2 | 59.22 | 5.43 | 12/22/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 55.99 | 4.70 | 12/22/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 45.75 | 2.89 | 12/22/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 48.27 | 0.06 | 12/22/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 54.21 | 4.89 | 12/22/2015 |
| 1,2-Dichloroethane | 5.0 | | **52.0** | 50.00 | 0 | 104.1 | 53.10 | 2.04 | 12/22/2015 |
| 1,2-Dichloropropane | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 53.34 | 2.20 | 12/22/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 53.45 | 5.24 | 12/22/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **53.2** | 50.00 | 0 | 106.5 | 55.80 | 4.70 | 12/22/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.2** | 50.00 | 0 | 98.5 | 49.75 | 1.05 | 12/22/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 56.10 | 4.78 | 12/22/2015 |
| 1-Chlorobutane | 5.0 | | **52.2** | 50.00 | 0 | 104.5 | 54.62 | 4.44 | 12/22/2015 |
| 2,2-Dichloropropane | 5.0 | | **53.4** | 50.00 | 0 | 106.8 | 56.74 | 6.08 | 12/22/2015 |
| 2-Butanone | 50.0 | | **122** | 125.0 | 0 | 97.6 | 136.8 | 11.38 | 12/22/2015 |
| 2-Chlorotoluene | 5.0 | | **52.3** | 50.00 | 0 | 104.6 | 55.30 | 5.58 | 12/22/2015 |
| 2-Hexanone | 50.0 | | **114** | 125.0 | 0 | 91.5 | 127.3 | 10.73 | 12/22/2015 |
| 2-Nitropropane | 50.0 | | **592** | 500.0 | 0 | 118.4 | 574.6 | 3.02 | 12/22/2015 |
| 4-Chlorotoluene | 5.0 | | **52.7** | 50.00 | 0 | 105.5 | 56.54 | 6.97 | 12/22/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **124** | 125.0 | 0 | 99.4 | 121.3 | 2.33 | 12/22/2015 |
| Acetone | 50.0 | | **121** | 125.0 | 0 | 96.6 | 156.7 | 25.95 | 12/22/2015 |
| Acetonitrile | 100 | | **554** | 500.0 | 0 | 110.9 | 541.0 | 2.43 | 12/22/2015 |
| Acrolein | 100 | | **496** | 500.0 | 0 | 99.2 | 518.4 | 4.45 | 12/22/2015 |
| Acrylonitrile | 10.0 | | **50.7** | 50.00 | 0 | 101.3 | 46.63 | 8.30 | 12/22/2015 |
| Allyl chloride | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 52.38 | 3.18 | 12/22/2015 |
| Benzene | 1.0 | | **53.2** | 50.00 | 0 | 106.4 | 55.27 | 3.78 | 12/22/2015 |
| Bromobenzene | 5.0 | | **48.9** | 50.00 | 0 | 97.8 | 50.92 | 4.09 | 12/22/2015 |
| Bromochloromethane | 5.0 | | **51.6** | 50.00 | 0 | 103.3 | 52.56 | 1.75 | 12/22/2015 |
| Bromodichloromethane | 5.0 | | **52.3** | 50.00 | 0 | 104.7 | 53.68 | 2.55 | 12/22/2015 |
| Bromoform | 5.0 | | **54.8** | 50.00 | 0 | 109.6 | 55.26 | 0.82 | 12/22/2015 |
| Bromomethane | 10.0 | | **43.7** | 50.00 | 0 | 87.4 | 45.31 | 3.62 | 12/22/2015 |
| Carbon disulfide | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 51.99 | 5.82 | 12/22/2015 |
| Carbon tetrachloride | 5.0 | | **54.4** | 50.00 | 0 | 108.8 | 57.54 | 5.59 | 12/22/2015 |
| Chlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 54.16 | 3.17 | 12/22/2015 |
| Chloroethane | 10.0 | | **48.4** | 50.00 | 0 | 96.7 | 51.45 | 6.19 | 12/22/2015 |
| Chloroform | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 54.41 | 4.28 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115156** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **36.1** | 50.00 | 0 | 72.1 | 37.96 | 5.11 | 12/22/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **51.9** | 50.00 | 0 | 103.8 | 54.28 | 4.46 | 12/22/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **53.7** | 50.00 | 0 | 107.4 | 55.03 | 2.47 | 12/22/2015 |
| Cyclohexanone | 100 | | **476** | 500.0 | 0 | 95.2 | 454.4 | 4.70 | 12/22/2015 |
| Dibromochloromethane | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 52.09 | 0.83 | 12/22/2015 |
| Dibromomethane | 5.0 | | **52.2** | 50.00 | 0 | 104.4 | 53.06 | 1.63 | 12/22/2015 |
| Dichlorodifluoromethane | 10.0 | | **28.0** | 50.00 | 0 | 56.0 | 30.43 | 8.35 | 12/22/2015 |
| Diisopropyl ether | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 49.63 | 2.67 | 12/22/2015 |
| Ethyl ether | 5.0 | | **48.2** | 50.00 | 0 | 96.3 | 48.99 | 1.73 | 12/22/2015 |
| Ethyl methacrylate | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 50.41 | 0.55 | 12/22/2015 |
| Ethylbenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 51.80 | 4.14 | 12/22/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **49.3** | 50.00 | 0 | 98.6 | 50.41 | 2.23 | 12/22/2015 |
| Hexachlorobutadiene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 58.02 | 6.64 | 12/22/2015 |
| Hexachloroethane | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 53.26 | 4.34 | 12/22/2015 |
| Iodomethane | 10.0 | | **52.8** | 50.00 | 0 | 105.6 | 55.79 | 5.49 | 12/22/2015 |
| Isopropylbenzene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 52.77 | 4.44 | 12/22/2015 |
| m,p-Xylenes | 5.0 | | **106** | 100.0 | 0 | 106.0 | 110.5 | 4.18 | 12/22/2015 |
| Methacrylonitrile | 50.0 | | **51.4** | 50.00 | 0 | 102.7 | 50.74 | 1.20 | 12/22/2015 |
| Methyl Methacrylate | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 52.15 | 1.43 | 12/22/2015 |
| Methyl tert-butyl ether | 2.0 | | **49.3** | 50.00 | 0 | 98.6 | 49.55 | 0.55 | 12/22/2015 |
| Methylacrylate | 10.0 | | **55.7** | 50.00 | 0 | 111.4 | 54.72 | 1.78 | 12/22/2015 |
| Methylene chloride | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 53.74 | 4.84 | 12/22/2015 |
| Naphthalene | 10.0 | | **50.1** | 50.00 | 0 | 100.2 | 50.63 | 1.05 | 12/22/2015 |
| n-Butylbenzene | 5.0 | | **55.1** | 50.00 | 0 | 110.1 | 58.45 | 5.95 | 12/22/2015 |
| n-Heptane | 20.0 | | **54.3** | 50.00 | 0 | 108.7 | 57.78 | 6.14 | 12/22/2015 |
| n-Hexane | 20.0 | | **53.6** | 50.00 | 0 | 107.2 | 57.47 | 7.01 | 12/22/2015 |
| Nitrobenzene | 100 | | **497** | 500.0 | 0 | 99.4 | 487.8 | 1.89 | 12/22/2015 |
| n-Propylbenzene | 5.0 | | **53.3** | 50.00 | 0 | 106.5 | 56.46 | 5.81 | 12/22/2015 |
| o-Xylene | 5.0 | | **52.9** | 50.00 | 0 | 105.8 | 54.65 | 3.29 | 12/22/2015 |
| Pentachloroethane | 5.0 | | **55.7** | 50.00 | 0 | 111.3 | 57.44 | 3.13 | 12/22/2015 |
| p-Isopropyltoluene | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 54.38 | 5.11 | 12/22/2015 |
| Propionitrile | 50.0 | | **553** | 500.0 | 0 | 110.6 | 532.6 | 3.78 | 12/22/2015 |
| sec-Butylbenzene | 5.0 | | **50.8** | 50.00 | 0 | 101.5 | 53.32 | 4.90 | 12/22/2015 |
| Styrene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 55.60 | 2.88 | 12/22/2015 |
| tert-Amyl methyl ether | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 50.91 | 1.27 | 12/22/2015 |
| tert-Butyl alcohol | 50.0 | | **275** | 250.0 | 0 | 110.0 | 259.6 | 5.73 | 12/22/2015 |
| tert-Butylbenzene | 5.0 | | **51.3** | 50.00 | 0 | 102.5 | 54.60 | 6.29 | 12/22/2015 |
| Tetrachloroethene | 5.0 | | **46.0** | 50.00 | 0 | 92.0 | 49.30 | 6.90 | 12/22/2015 |
| Tetrahydrofuran | 50.0 | | **51.6** | 50.00 | 0 | 103.2 | 50.79 | 1.54 | 12/22/2015 |
| Toluene | 5.0 | | **50.5** | 50.00 | 0 | 101.0 | 51.90 | 2.77 | 12/22/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **52.1** | 50.00 | 0 | 104.2 | 54.55 | 4.56 | 12/22/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.2** | 50.00 | 0 | 104.3 | 52.64 | 0.94 | 12/22/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **49.9** | 50.00 | 0 | 99.9 | 50.09 | 0.32 | 12/22/2015 |
| Trichloroethene | 5.0 | | **54.3** | 50.00 | 0 | 108.6 | 56.60 | 4.11 | 12/22/2015 |
| Trichlorofluoromethane | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 53.69 | 6.74 | 12/22/2015 |
| Vinyl acetate | 50.0 | | **55.7** | 50.00 | 0 | 111.5 | 53.91 | 3.32 | 12/22/2015 |
| Vinyl chloride | 2.0 | | **43.0** | 50.00 | 0 | 86.1 | 46.11 | 6.91 | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115156** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **159** | 150.0 | 0 | 105.9 | 165.2 | 3.88 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.4** | 50.00 | | 98.8 | | | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.9** | 50.00 | | 99.9 | | | 12/22/2015 |
| Surr: Toluene-d8 | | | **47.4** | 50.00 | | 94.8 | | | 12/22/2015 |

**Batch 115156** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1850** | 2000 | 0 | 92.5 | 70 | 130 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.2** | 50.00 | | 98.4 | 72.2 | 131 | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **51.9** | 50.00 | | 103.8 | 82.1 | 116 | 12/22/2015 |
| Surr: Toluene-d8 | | | **49.3** | 50.00 | | 98.6 | 86 | 116 | 12/22/2015 |

**Batch 115156** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A151222A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1910** | 2000 | 0 | 95.4 | 1850 | 3.12 | 12/22/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.6** | 50.00 | | 99.2 | | | 12/22/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.5** | 50.00 | | 101.0 | | | 12/22/2015 |
| Surr: Toluene-d8 | | | **49.1** | 50.00 | | 98.2 | | | 12/22/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,1-Dichloropropene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dibromoethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dichloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,3-Dichloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 1-Chlorobutane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 2,2-Dichloropropane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Butanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Hexanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 2-Nitropropane | 50.0 | | **ND** | | | | | | 12/23/2015 |
| 4-Chlorotoluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Acetone | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Acetonitrile | 100 | | **ND** | | | | | | 12/23/2015 |
| Acrolein | 100 | | **ND** | | | | | | 12/23/2015 |
| Acrylonitrile | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Allyl chloride | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Benzene | 1.0 | | **ND** | | | | | | 12/23/2015 |
| Bromobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromochloromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromodichloromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromoform | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Bromomethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Carbon disulfide | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Carbon tetrachloride | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Chlorobenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Chloroethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Chloroform | 5.0 | | **ND** | | | | | | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/23/2015 |
| Cyclohexanone | 100 | | **ND** | | | | | | 12/23/2015 |
| Dibromochloromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Dibromomethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Dichlorodifluoromethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Diisopropyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethyl methacrylate | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Hexachlorobutadiene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Hexachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Iodomethane | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Isopropylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| m,p-Xylenes | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Methacrylonitrile | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Methyl Methacrylate | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Methyl tert-butyl ether | 2.0 | | **ND** | | | | | | 12/23/2015 |
| Methylacrylate | 10.0 | | **ND** | | | | | | 12/23/2015 |
| Methylene chloride | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Naphthalene | 10.0 | | **ND** | | | | | | 12/23/2015 |
| n-Butylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| n-Heptane | 20.0 | | **ND** | | | | | | 12/23/2015 |
| n-Hexane | 20.0 | | **ND** | | | | | | 12/23/2015 |
| Nitrobenzene | 100 | | **ND** | | | | | | 12/23/2015 |
| n-Propylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| o-Xylene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Pentachloroethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| p-Isopropyltoluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Propionitrile | 50.0 | | **ND** | | | | | | 12/23/2015 |
| sec-Butylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Styrene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| tert-Amyl methyl ether | 5.0 | | **ND** | | | | | | 12/23/2015 |
| tert-Butyl alcohol | 50.0 | | **ND** | | | | | | 12/23/2015 |
| tert-Butylbenzene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Tetrachloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Tetrahydrofuran | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Toluene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **ND** | | | | | | 12/23/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Trichloroethene | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Trichlorofluoromethane | 5.0 | | **ND** | | | | | | 12/23/2015 |
| Vinyl acetate | 50.0 | | **ND** | | | | | | 12/23/2015 |
| Vinyl chloride | 2.0 | | **ND** | | | | | | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **MBLK** Units **µg/Kg**

SampID: MBLK-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **ND** | | | | | | 12/23/2015 |
| TPH - GRO (C6 - C10) | 500 | | **ND** | | | | | | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.7** | 50.00 | | 101.5 | 72.2 | 131 | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.0** | 50.00 | | 98.0 | 82.1 | 116 | 12/23/2015 |
| Surr: Toluene-d8 | | | **48.0** | 50.00 | | 96.1 | 86 | 116 | 12/23/2015 |

**Client:** SCI Engineering, Inc.

**Work Order:** 15121500

**Client Project:** NGA 2015-0461.21

**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **47.9** | 50.00 | 0 | 95.8 | 83.1 | 114 | 12/23/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 78.5 | 119 | 12/23/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **45.0** | 50.00 | 0 | 90.1 | 67.4 | 120 | 12/23/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.5 | 75.4 | 121 | 12/23/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **46.3** | 50.00 | 0 | 92.6 | 81.1 | 111 | 12/23/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **112** | 125.0 | 0 | 89.9 | 55.4 | 131 | 12/23/2015 |
| 1,1-Dichloroethane | 5.0 | | **50.0** | 50.00 | 0 | 100.0 | 80.1 | 116 | 12/23/2015 |
| 1,1-Dichloroethene | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 73.1 | 121 | 12/23/2015 |
| 1,1-Dichloropropene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 82.2 | 114 | 12/23/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **49.7** | 50.00 | 0 | 99.4 | 81.7 | 130 | 12/23/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **45.4** | 50.00 | 0 | 90.7 | 67.8 | 118 | 12/23/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **46.2** | 50.00 | 0 | 92.3 | 82.1 | 127 | 12/23/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **52.1** | 50.00 | 0 | 104.3 | 72.3 | 141 | 12/23/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 79.7 | 123 | 12/23/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **43.7** | 50.00 | 0 | 87.4 | 62.1 | 123 | 12/23/2015 |
| 1,2-Dibromoethane | 5.0 | | **44.8** | 50.00 | 0 | 89.7 | 82.4 | 112 | 12/23/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **48.8** | 50.00 | 0 | 97.5 | 82.7 | 119 | 12/23/2015 |
| 1,2-Dichloroethane | 5.0 | | **50.3** | 50.00 | 0 | 100.7 | 72.8 | 120 | 12/23/2015 |
| 1,2-Dichloropropane | 5.0 | | **50.3** | 50.00 | 0 | 100.5 | 80 | 116 | 12/23/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **49.5** | 50.00 | 0 | 99.1 | 81.5 | 125 | 12/23/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **51.6** | 50.00 | 0 | 103.1 | 82 | 124 | 12/23/2015 |
| 1,3-Dichloropropane | 5.0 | | **45.9** | 50.00 | 0 | 91.8 | 79.8 | 113 | 12/23/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.3 | 81.1 | 124 | 12/23/2015 |
| 1-Chlorobutane | 5.0 | | **51.6** | 50.00 | 0 | 103.2 | 77.2 | 113 | 12/23/2015 |
| 2,2-Dichloropropane | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 76.6 | 121 | 12/23/2015 |
| 2-Butanone | 50.0 | | **133** | 125.0 | 0 | 106.2 | 62.8 | 131 | 12/23/2015 |
| 2-Chlorotoluene | 5.0 | | **50.3** | 50.00 | 0 | 100.6 | 78.8 | 121 | 12/23/2015 |
| 2-Hexanone | 50.0 | | **127** | 125.0 | 0 | 101.3 | 63.1 | 125 | 12/23/2015 |
| 2-Nitropropane | 50.0 | | **547** | 500.0 | 0 | 109.5 | 61.2 | 129 | 12/23/2015 |
| 4-Chlorotoluene | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 77.6 | 124 | 12/23/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **114** | 125.0 | 0 | 91.6 | 60.6 | 126 | 12/23/2015 |
| Acetone | 50.0 | | **155** | 125.0 | 0 | 124.3 | 39.5 | 159 | 12/23/2015 |
| Acetonitrile | 100 | | **518** | 500.0 | 0 | 103.5 | 64.8 | 123 | 12/23/2015 |
| Acrolein | 100 | | **557** | 500.0 | 0 | 111.3 | 1 | 167 | 12/23/2015 |
| Acrylonitrile | 10.0 | | **48.1** | 50.00 | 0 | 96.2 | 67 | 124 | 12/23/2015 |
| Allyl chloride | 5.0 | | **47.9** | 50.00 | 0 | 95.7 | 58.5 | 129 | 12/23/2015 |
| Benzene | 1.0 | | **51.5** | 50.00 | 0 | 102.9 | 80.8 | 117 | 12/23/2015 |
| Bromobenzene | 5.0 | | **47.0** | 50.00 | 0 | 94.0 | 79.6 | 117 | 12/23/2015 |
| Bromochloromethane | 5.0 | | **50.2** | 50.00 | 0 | 100.5 | 70.7 | 121 | 12/23/2015 |
| Bromodichloromethane | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 80.7 | 121 | 12/23/2015 |
| Bromoform | 5.0 | | **51.2** | 50.00 | 0 | 102.4 | 79.8 | 118 | 12/23/2015 |
| Bromomethane | 10.0 | | **45.8** | 50.00 | 0 | 91.6 | 1 | 175 | 12/23/2015 |
| Carbon disulfide | 5.0 | | **47.5** | 50.00 | 0 | 95.0 | 62.8 | 123 | 12/23/2015 |
| Carbon tetrachloride | 5.0 | | **53.0** | 50.00 | 0 | 106.1 | 77.6 | 123 | 12/23/2015 |
| Chlorobenzene | 5.0 | | **50.4** | 50.00 | 0 | 100.9 | 85.6 | 116 | 12/23/2015 |
| Chloroethane | 10.0 | | **45.6** | 50.00 | 0 | 91.2 | 60.2 | 125 | 12/23/2015 |
| Chloroform | 5.0 | | **50.9** | 50.00 | 0 | 101.8 | 77.9 | 116 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **34.0** | 50.00 | 0 | 67.9 | 29.9 | 157 | 12/23/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **51.0** | 50.00 | 0 | 102.1 | 80.1 | 116 | 12/23/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **51.6** | 50.00 | 0 | 103.2 | 80.5 | 121 | 12/23/2015 |
| Cyclohexanone | 100 | | **440** | 500.0 | 0 | 88.0 | 45.4 | 128 | 12/23/2015 |
| Dibromochloromethane | 5.0 | | **47.8** | 50.00 | 0 | 95.6 | 84.3 | 116 | 12/23/2015 |
| Dibromomethane | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 76.6 | 115 | 12/23/2015 |
| Dichlorodifluoromethane | 10.0 | | **23.5** | 50.00 | 0 | 47.0 | 1 | 200 | 12/23/2015 |
| Diisopropyl ether | 5.0 | | **46.8** | 50.00 | 0 | 93.5 | 73.6 | 119 | 12/23/2015 |
| Ethyl ether | 5.0 | | **45.6** | 50.00 | 0 | 91.2 | 73.4 | 116 | 12/23/2015 |
| Ethyl methacrylate | 5.0 | | **46.7** | 50.00 | 0 | 93.3 | 76.2 | 120 | 12/23/2015 |
| Ethylbenzene | 5.0 | | **48.6** | 50.00 | 0 | 97.3 | 84.8 | 116 | 12/23/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **47.1** | 50.00 | 0 | 94.2 | 73.8 | 119 | 12/23/2015 |
| Hexachlorobutadiene | 5.0 | | **50.9** | 50.00 | 0 | 101.9 | 74 | 135 | 12/23/2015 |
| Hexachloroethane | 5.0 | | **49.6** | 50.00 | 0 | 99.2 | 76.4 | 121 | 12/23/2015 |
| Iodomethane | 10.0 | | **51.7** | 50.00 | 0 | 103.4 | 38.7 | 161 | 12/23/2015 |
| Isopropylbenzene | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 85 | 125 | 12/23/2015 |
| m,p-Xylenes | 5.0 | | **103** | 100.0 | 0 | 103.0 | 85.3 | 120 | 12/23/2015 |
| Methacrylonitrile | 50.0 | J | **48** | 50.00 | 0 | 95.4 | 65.7 | 120 | 12/23/2015 |
| Methyl Methacrylate | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 69.1 | 114 | 12/23/2015 |
| Methyl tert-butyl ether | 2.0 | | **46.3** | 50.00 | 0 | 92.6 | 66.6 | 125 | 12/23/2015 |
| Methylacrylate | 10.0 | | **50.1** | 50.00 | 0 | 100.2 | 69.7 | 121 | 12/23/2015 |
| Methylene chloride | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 73.4 | 115 | 12/23/2015 |
| Naphthalene | 10.0 | | **45.2** | 50.00 | 0 | 90.5 | 70.1 | 134 | 12/23/2015 |
| n-Butylbenzene | 5.0 | | **53.8** | 50.00 | 0 | 107.6 | 78.4 | 138 | 12/23/2015 |
| n-Heptane | 20.0 | | **54.5** | 50.00 | 0 | 109.1 | 74.3 | 125 | 12/23/2015 |
| n-Hexane | 20.0 | | **52.3** | 50.00 | 0 | 104.6 | 66.3 | 129 | 12/23/2015 |
| Nitrobenzene | 100 | | **422** | 500.0 | 0 | 84.4 | 20.1 | 165 | 12/23/2015 |
| n-Propylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.9 | 79.1 | 125 | 12/23/2015 |
| o-Xylene | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 81.9 | 118 | 12/23/2015 |
| Pentachloroethane | 5.0 | | **51.0** | 50.00 | 0 | 102.0 | 72.7 | 123 | 12/23/2015 |
| p-Isopropyltoluene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 82.7 | 129 | 12/23/2015 |
| Propionitrile | 50.0 | | **510** | 500.0 | 0 | 102.0 | 64.3 | 121 | 12/23/2015 |
| sec-Butylbenzene | 5.0 | | **49.4** | 50.00 | 0 | 98.8 | 81.3 | 125 | 12/23/2015 |
| Styrene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 88.2 | 122 | 12/23/2015 |
| tert-Amyl methyl ether | 5.0 | | **47.8** | 50.00 | 0 | 95.5 | 74.5 | 120 | 12/23/2015 |
| tert-Butyl alcohol | 50.0 | | **249** | 250.0 | 0 | 99.6 | 51.3 | 129 | 12/23/2015 |
| tert-Butylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.5 | 74.8 | 125 | 12/23/2015 |
| Tetrachloroethene | 5.0 | | **47.4** | 50.00 | 0 | 94.7 | 84.2 | 122 | 12/23/2015 |
| Tetrahydrofuran | 50.0 | J | **48** | 50.00 | 0 | 95.1 | 61 | 118 | 12/23/2015 |
| Toluene | 5.0 | | **48.4** | 50.00 | 0 | 96.8 | 81.3 | 113 | 12/23/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **51.3** | 50.00 | 0 | 102.5 | 78.2 | 118 | 12/23/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **48.5** | 50.00 | 0 | 97.0 | 81.7 | 124 | 12/23/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **46.8** | 50.00 | 0 | 93.6 | 63.9 | 117 | 12/23/2015 |
| Trichloroethene | 5.0 | | **53.1** | 50.00 | 0 | 106.2 | 81 | 123 | 12/23/2015 |
| Trichlorofluoromethane | 5.0 | | **48.3** | 50.00 | 0 | 96.6 | 66.8 | 131 | 12/23/2015 |
| Vinyl acetate | 50.0 | | **51.1** | 50.00 | 0 | 102.1 | 64.3 | 122 | 12/23/2015 |
| Vinyl chloride | 2.0 | | **42.2** | 50.00 | 0 | 84.3 | 45.2 | 140 | 12/23/2015 |

# Quality Control Results

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCS** Units **µg/Kg**

SampID: LCS-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **154** | 150.0 | 0 | 102.7 | 85.3 | 118 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **49.0** | 50.00 | | 98.1 | 72.2 | 131 | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **50.7** | 50.00 | | 101.3 | 82.1 | 116 | 12/23/2015 |
| Surr: Toluene-d8 | | | **47.1** | 50.00 | | 94.2 | 86 | 116 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 5.0 | | **50.6** | 50.00 | 0 | 101.2 | 47.91 | 5.48 | 12/23/2015 |
| 1,1,1-Trichloroethane | 5.0 | | **55.3** | 50.00 | 0 | 110.5 | 52.51 | 5.12 | 12/23/2015 |
| 1,1,2,2-Tetrachloroethane | 5.0 | | **48.0** | 50.00 | 0 | 96.0 | 45.05 | 6.38 | 12/23/2015 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | | **53.5** | 50.00 | 0 | 107.0 | 51.25 | 4.28 | 12/23/2015 |
| 1,1,2-Trichloroethane | 5.0 | | **50.1** | 50.00 | 0 | 100.2 | 46.31 | 7.86 | 12/23/2015 |
| 1,1-Dichloro-2-propanone | 50.0 | | **122** | 125.0 | 0 | 97.8 | 112.3 | 8.51 | 12/23/2015 |
| 1,1-Dichloroethane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 50.00 | 7.10 | 12/23/2015 |
| 1,1-Dichloroethene | 5.0 | | **53.3** | 50.00 | 0 | 106.6 | 50.08 | 6.27 | 12/23/2015 |
| 1,1-Dichloropropene | 5.0 | | **55.0** | 50.00 | 0 | 110.0 | 52.47 | 4.73 | 12/23/2015 |
| 1,2,3-Trichlorobenzene | 5.0 | | **53.4** | 50.00 | 0 | 106.9 | 49.69 | 7.25 | 12/23/2015 |
| 1,2,3-Trichloropropane | 10.0 | | **48.3** | 50.00 | 0 | 96.6 | 45.36 | 6.26 | 12/23/2015 |
| 1,2,3-Trimethylbenzene | 5.0 | | **48.5** | 50.00 | 0 | 97.0 | 46.17 | 4.94 | 12/23/2015 |
| 1,2,4-Trichlorobenzene | 5.0 | | **55.1** | 50.00 | 0 | 110.3 | 52.13 | 5.59 | 12/23/2015 |
| 1,2,4-Trimethylbenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.5 | 51.36 | 2.67 | 12/23/2015 |
| 1,2-Dibromo-3-chloropropane | 5.0 | | **47.4** | 50.00 | 0 | 94.8 | 43.70 | 8.08 | 12/23/2015 |
| 1,2-Dibromoethane | 5.0 | | **48.2** | 50.00 | 0 | 96.4 | 44.85 | 7.16 | 12/23/2015 |
| 1,2-Dichlorobenzene | 5.0 | | **51.5** | 50.00 | 0 | 103.1 | 48.75 | 5.56 | 12/23/2015 |
| 1,2-Dichloroethane | 5.0 | | **53.9** | 50.00 | 0 | 107.7 | 50.34 | 6.76 | 12/23/2015 |
| 1,2-Dichloropropane | 5.0 | | **53.7** | 50.00 | 0 | 107.4 | 50.26 | 6.58 | 12/23/2015 |
| 1,3,5-Trimethylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 49.53 | 2.33 | 12/23/2015 |
| 1,3-Dichlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 104.9 | 51.57 | 1.71 | 12/23/2015 |
| 1,3-Dichloropropane | 5.0 | | **49.5** | 50.00 | 0 | 99.0 | 45.88 | 7.59 | 12/23/2015 |
| 1,4-Dichlorobenzene | 5.0 | | **52.5** | 50.00 | 0 | 105.0 | 50.66 | 3.55 | 12/23/2015 |
| 1-Chlorobutane | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 51.61 | 4.30 | 12/23/2015 |
| 2,2-Dichloropropane | 5.0 | | **56.8** | 50.00 | 0 | 113.6 | 52.78 | 7.30 | 12/23/2015 |
| 2-Butanone | 50.0 | | **141** | 125.0 | 0 | 113.1 | 132.8 | 6.27 | 12/23/2015 |
| 2-Chlorotoluene | 5.0 | | **51.7** | 50.00 | 0 | 103.4 | 50.30 | 2.75 | 12/23/2015 |
| 2-Hexanone | 50.0 | | **129** | 125.0 | 0 | 103.1 | 126.6 | 1.79 | 12/23/2015 |
| 2-Nitropropane | 50.0 | | **611** | 500.0 | 0 | 122.2 | 547.3 | 11.01 | 12/23/2015 |
| 4-Chlorotoluene | 5.0 | | **52.7** | 50.00 | 0 | 105.4 | 51.18 | 2.89 | 12/23/2015 |
| 4-Methyl-2-pentanone | 50.0 | | **124** | 125.0 | 0 | 99.1 | 114.5 | 7.84 | 12/23/2015 |
| Acetone | 50.0 | | **156** | 125.0 | 0 | 125.1 | 155.3 | 0.67 | 12/23/2015 |
| Acetonitrile | 100 | | **578** | 500.0 | 0 | 115.7 | 517.7 | 11.06 | 12/23/2015 |
| Acrolein | 100 | | **538** | 500.0 | 0 | 107.6 | 556.7 | 3.46 | 12/23/2015 |
| Acrylonitrile | 10.0 | | **54.0** | 50.00 | 0 | 108.0 | 48.11 | 11.54 | 12/23/2015 |
| Allyl chloride | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 47.87 | 5.78 | 12/23/2015 |
| Benzene | 1.0 | | **54.8** | 50.00 | 0 | 109.6 | 51.46 | 6.27 | 12/23/2015 |
| Bromobenzene | 5.0 | | **48.5** | 50.00 | 0 | 96.9 | 47.02 | 3.02 | 12/23/2015 |
| Bromochloromethane | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 50.24 | 7.68 | 12/23/2015 |
| Bromodichloromethane | 5.0 | | **54.2** | 50.00 | 0 | 108.4 | 50.57 | 6.95 | 12/23/2015 |
| Bromoform | 5.0 | | **55.5** | 50.00 | 0 | 110.9 | 51.18 | 8.03 | 12/23/2015 |
| Bromomethane | 10.0 | | **48.1** | 50.00 | 0 | 96.2 | 45.79 | 4.94 | 12/23/2015 |
| Carbon disulfide | 5.0 | | **49.8** | 50.00 | 0 | 99.6 | 47.48 | 4.79 | 12/23/2015 |
| Carbon tetrachloride | 5.0 | | **56.9** | 50.00 | 0 | 113.7 | 53.05 | 6.93 | 12/23/2015 |
| Chlorobenzene | 5.0 | | **52.4** | 50.00 | 0 | 104.9 | 50.43 | 3.91 | 12/23/2015 |
| Chloroethane | 10.0 | | **48.9** | 50.00 | 0 | 97.8 | 45.60 | 6.96 | 12/23/2015 |
| Chloroform | 5.0 | | **54.1** | 50.00 | 0 | 108.3 | 50.91 | 6.13 | 12/23/2015 |

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch** **115190** **SampType:** **LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 10.0 | | **36.8** | 50.00 | 0 | 73.6 | 33.97 | 8.02 | 12/23/2015 |
| cis-1,2-Dichloroethene | 5.0 | | **54.2** | 50.00 | 0 | 108.5 | 51.05 | 6.06 | 12/23/2015 |
| cis-1,3-Dichloropropene | 4.0 | | **55.7** | 50.00 | 0 | 111.3 | 51.61 | 7.55 | 12/23/2015 |
| Cyclohexanone | 100 | | **479** | 500.0 | 0 | 95.8 | 440.0 | 8.49 | 12/23/2015 |
| Dibromochloromethane | 5.0 | | **51.7** | 50.00 | 0 | 103.3 | 47.79 | 7.78 | 12/23/2015 |
| Dibromomethane | 5.0 | | **53.6** | 50.00 | 0 | 107.3 | 49.04 | 8.94 | 12/23/2015 |
| Dichlorodifluoromethane | 10.0 | | **23.8** | 50.00 | 0 | 47.7 | 23.50 | 1.44 | 12/23/2015 |
| Diisopropyl ether | 5.0 | | **50.2** | 50.00 | 0 | 100.4 | 46.77 | 7.09 | 12/23/2015 |
| Ethyl ether | 5.0 | | **49.0** | 50.00 | 0 | 98.1 | 45.58 | 7.29 | 12/23/2015 |
| Ethyl methacrylate | 5.0 | | **50.6** | 50.00 | 0 | 101.1 | 46.67 | 8.00 | 12/23/2015 |
| Ethylbenzene | 5.0 | | **50.7** | 50.00 | 0 | 101.4 | 48.65 | 4.11 | 12/23/2015 |
| Ethyl-tert-butyl ether | 5.0 | | **51.0** | 50.00 | 0 | 101.9 | 47.09 | 7.87 | 12/23/2015 |
| Hexachlorobutadiene | 5.0 | | **54.1** | 50.00 | 0 | 108.3 | 50.94 | 6.07 | 12/23/2015 |
| Hexachloroethane | 5.0 | | **51.2** | 50.00 | 0 | 102.3 | 49.58 | 3.16 | 12/23/2015 |
| Iodomethane | 10.0 | | **54.6** | 50.00 | 0 | 109.1 | 51.68 | 5.40 | 12/23/2015 |
| Isopropylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 49.49 | 5.25 | 12/23/2015 |
| m,p-Xylenes | 5.0 | | **109** | 100.0 | 0 | 109.0 | 103.0 | 5.60 | 12/23/2015 |
| Methacrylonitrile | 50.0 | | **53.2** | 50.00 | 0 | 106.3 | 47.72 | 10.80 | 12/23/2015 |
| Methyl Methacrylate | 5.0 | | **54.1** | 50.00 | 0 | 108.1 | 49.42 | 8.99 | 12/23/2015 |
| Methyl tert-butyl ether | 2.0 | | **50.5** | 50.00 | 0 | 101.0 | 46.29 | 8.72 | 12/23/2015 |
| Methylacrylate | 10.0 | | **56.8** | 50.00 | 0 | 113.6 | 50.11 | 12.55 | 12/23/2015 |
| Methylene chloride | 5.0 | | **54.7** | 50.00 | 0 | 109.4 | 50.59 | 7.83 | 12/23/2015 |
| Naphthalene | 10.0 | | **49.7** | 50.00 | 0 | 99.4 | 45.25 | 9.33 | 12/23/2015 |
| n-Butylbenzene | 5.0 | | **54.7** | 50.00 | 0 | 109.3 | 53.81 | 1.57 | 12/23/2015 |
| n-Heptane | 20.0 | | **55.0** | 50.00 | 0 | 110.0 | 54.54 | 0.82 | 12/23/2015 |
| n-Hexane | 20.0 | | **53.5** | 50.00 | 0 | 107.0 | 52.30 | 2.29 | 12/23/2015 |
| Nitrobenzene | 100 | | **485** | 500.0 | 0 | 97.0 | 422.0 | 13.88 | 12/23/2015 |
| n-Propylbenzene | 5.0 | | **52.8** | 50.00 | 0 | 105.6 | 51.44 | 2.61 | 12/23/2015 |
| o-Xylene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 51.00 | 5.73 | 12/23/2015 |
| Pentachloroethane | 5.0 | | **53.9** | 50.00 | 0 | 107.8 | 50.98 | 5.61 | 12/23/2015 |
| p-Isopropyltoluene | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 50.72 | 2.09 | 12/23/2015 |
| Propionitrile | 50.0 | | **571** | 500.0 | 0 | 114.2 | 509.9 | 11.27 | 12/23/2015 |
| sec-Butylbenzene | 5.0 | | **51.4** | 50.00 | 0 | 102.7 | 49.38 | 3.95 | 12/23/2015 |
| Styrene | 5.0 | | **55.1** | 50.00 | 0 | 110.3 | 51.79 | 6.25 | 12/23/2015 |
| tert-Amyl methyl ether | 5.0 | | **51.9** | 50.00 | 0 | 103.7 | 47.75 | 8.25 | 12/23/2015 |
| tert-Butyl alcohol | 50.0 | | **284** | 250.0 | 0 | 113.7 | 249.0 | 13.21 | 12/23/2015 |
| tert-Butylbenzene | 5.0 | | **52.2** | 50.00 | 0 | 104.3 | 50.74 | 2.74 | 12/23/2015 |
| Tetrachloroethene | 5.0 | | **46.4** | 50.00 | 0 | 92.8 | 47.35 | 2.01 | 12/23/2015 |
| Tetrahydrofuran | 50.0 | | **54.0** | 50.00 | 0 | 108.1 | 47.55 | 12.78 | 12/23/2015 |
| Toluene | 5.0 | | **50.8** | 50.00 | 0 | 101.7 | 48.39 | 4.92 | 12/23/2015 |
| trans-1,2-Dichloroethene | 5.0 | | **54.0** | 50.00 | 0 | 108.0 | 51.27 | 5.22 | 12/23/2015 |
| trans-1,3-Dichloropropene | 4.0 | | **52.0** | 50.00 | 0 | 104.1 | 48.48 | 7.10 | 12/23/2015 |
| trans-1,4-Dichloro-2-butene | 5.0 | | **48.7** | 50.00 | 0 | 97.3 | 46.82 | 3.87 | 12/23/2015 |
| Trichloroethene | 5.0 | | **55.5** | 50.00 | 0 | 111.0 | 53.08 | 4.42 | 12/23/2015 |
| Trichlorofluoromethane | 5.0 | | **51.8** | 50.00 | 0 | 103.6 | 48.30 | 6.95 | 12/23/2015 |
| Vinyl acetate | 50.0 | | **58.4** | 50.00 | 0 | 116.7 | 51.07 | 13.34 | 12/23/2015 |
| Vinyl chloride | 2.0 | | **44.7** | 50.00 | 0 | 89.5 | 42.16 | 5.92 | 12/23/2015 |

**Client:** SCI Engineering, Inc. **Work Order:** 15121500

**Client Project:** NGA 2015-0461.21 **Report Date:** 28-Dec-15

## SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

**Batch 115190** **SampType: LCSD** Units **µg/Kg** RPD Limit **40**

SampID: LCSD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 5.0 | | **163** | 150.0 | 0 | 108.7 | 154.0 | 5.65 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.6** | 50.00 | | 101.1 | | | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.9** | 50.00 | | 99.8 | | | 12/23/2015 |
| Surr: Toluene-d8 | | | **47.2** | 50.00 | | 94.3 | | | 12/23/2015 |

**Batch 115190** **SampType: LCSG** Units **µg/Kg**

SampID: LCSG-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1840** | 2000 | 0 | 91.9 | 70 | 130 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.5** | 50.00 | | 100.9 | 72.2 | 131 | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.8** | 50.00 | | 99.6 | 82.1 | 116 | 12/23/2015 |
| Surr: Toluene-d8 | | | **48.7** | 50.00 | | 97.4 | 86 | 116 | 12/23/2015 |

**Batch 115190** **SampType: LCSGD** Units **µg/Kg** RPD Limit **20**

SampID: LCSGD-A151223A-1

| Analyses | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| TPH - GRO (C6 - C10) | 500 | | **1730** | 2000 | 0 | 86.6 | 1839 | 5.99 | 12/23/2015 |
| Surr: 1,2-Dichloroethane-d4 | | | **50.7** | 50.00 | | 101.5 | | | 12/23/2015 |
| Surr: 4-Bromofluorobenzene | | | **49.5** | 50.00 | | 99.1 | | | 12/23/2015 |
| Surr: Toluene-d8 | | | **48.3** | 50.00 | | 96.6 | | | 12/23/2015 |

# Receiving Check List

http://www.teklabinc.com/

**Client:** SCI Engineering, Inc.
**Client Project:** NGA 2015-0461.21

**Work Order:** 15121500
**Report Date:** 28-Dec-15

**Carrier:** Anthony Kimutis

**Received By:** KF

**Completed by:** M. Kaminski
**On:** 21-Dec-15
Mary Anne Kaminski

**Reviewed by:** Elizabeth A. Hurley
**On:** 21-Dec-15
Elizabeth A. Hurley

**Pages to follow:** Chain of custody 3 Extra pages included 0

| | | | | | |
|---|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ | Temp °C | 15.42 |
| Type of thermal preservation? | None ☐ | Ice ☑ | Blue Ice ☐ | Dry Ice | ☐ |
| Chain of custody present? | Yes ☑ | No ☐ | | | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | | | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | | | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | | | |
| Sample containers intact? | Yes ☑ | No ☐ | | | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | | | |
| All samples received within holding time? | Yes ☑ | No ☐ | | | |
| Reported field parameters measured: | Field ☐ | Lab ☐ | NA ☑ | | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | | | |

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

| | | | |
|---|---|---|---|
| Water – at least one vial per sample has zero headspace? | Yes ☑ | No ☐ | No VOA vials ☐ |
| Water - TOX containers have zero headspace? | Yes ☐ | No ☐ | No TOX containers ☑ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | NA ☐ |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes ☐ | No ☐ | NA ☑ |

**Any No responses must be detailed below or on the COC.**

# CHAIN OF CUSTODY

pg. 1 of 3 Work order # 15121500

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☐ ICE ☐ BLUE ICE ☐ NO ICE 15.42 °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Client Comments:**
Meet MRBCA DTLs.
1 equipment blank and 2 trip blanks (1 per cooler) included.
Duplicate Sample included as "SCI-27D".

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

Courier

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15121500 001 | EB-2 | 12-21-15 2:30 pm | | | | | | | | 2 | | X | | | | | | | | X |
| 002 | TB-2 | 8:00 am | | | | | | | | 2 | | X | | | | | | | | X |
| 003 | TB-3 | 8:00 am | | | | | | | | 2 | | X | | | | | | | | X |
| 004 | SCI-20A (0-3) | 9:00 am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 005 | SCI-20B (12-16) | 9:00 am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 006 | SCI-21A (0-3) | 8:30 am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 007 | SCI-21B (4-8) | 8:30 am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 008 | SCI-22A (0-3) | 9:40 am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 009 | SCI-22B (8-12) | 9:40 am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 010 | SCI-23A (0-3) | 10:45 am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 12-21-15 4:15 pm | | 12/21/15 1615 |
| | 12/21/15 1635 | Kalyn Soeder | 12/21/15 1635 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

# CHAIN OF CUSTODY

pg. 2 of 3 Work order # 15121500

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**

**Client Comments:**

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☒ No BC 12-21-2015

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15121500 011 | SCI-23B (8-12) | 12-21-15 10:45am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 012 | SCI-24A (0-3) | 11:15am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 013 | SCI-24B (4-8) | 11:15am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 014 | SCI-25A (0-3) | 11:45am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 015 | SCI-25B (16-20) | 11:45am | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 016 | SCI-26A (0-3) | 12:50pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 017 | SCI-26B (4-8) | 12:50pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 018 | SCI-27A (0-3) | 1:30pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 019 | SCI-27B (16-20) | 1:30pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 020 | SCI-28A (0-3) | 2:10pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 12-21-15 4:15pm | | 12/21/15 1615 |
| | 12/21/15 1635 | Kaly Jolche | 12/21/15 1635 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633

# CHAIN OF CUSTODY

pg. 3 of 3 Work order # 15121500

**TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005**

**Client:** SCI Engineering, Inc.
**Address:** 130 Point West Boulevard
**City / State / Zip** St. Charles, MO 63301
**Contact:** Ben Butterfield **Phone:** (618) 206-3028
**E-Mail:** bbutterfield@sciengineering.com **Fax:**

**Samples on:** ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
**Preserved in:** ☐ LAB ☐ FIELD
**FOR LAB USE ONLY**
**Lab Notes**

**Client Comments:**

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

**Project Name/Number**
NGA 2015-0461.21

**Sample Collector's Name**
Travis Clayton

**Results Requested**
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

**Billing Instructions**
2015-0461.21

| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers: UNPRES | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | OTHER | MATRIX: Aqueous | Drinking Water | Soil | Sludge | Special Waste | Groundwater | INDICATE ANALYSIS REQUESTED: DRO/ORO/PAH 8270 | PCB 8082 | Total 8 RCRA Metals | VOC/GRO 8260 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15121500 021 | SCI-28B (16-20) | 12-21-15 2:10 pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 022 | SCI-27D (16-20) | 1:30 pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 023 | SCI-29A (0-3) | 3:30 pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |
| 024 | SCI-29B (4-8) | 3:30 pm | 2 | | | | | | | 3 | | | X | | | | X | | X | X |

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Travis Clayton | 12-21-15 4:15 pm | [signature] | 12/21/15 1615 |
| [signature] | 12/21/15 1635 | Kelly Steele | 12/21/15 1635 |
| | | | |
| | | | |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28633